Bureau of Safety and Environmental Enforcement
Pacific OCS Region
Camarillo, CA

Presentation of the 2015 Decommissioning Cost Estimates for POCSR Platforms

Workshop location:

2000 Solar Drive
Oxnard, CA 93036
Tel: 805-983-8600 Fax: 805-983-3200

Tuesday, February 3, 2015
1:00 - 4:00 P.M.

Speaker: Will Speck, TSB Offshore, Inc.

Program: Decommissioning Cost Update for
Pacific OCS Region Facilities, February 2015
Technology Assessment Program (TAP) Study

Will Speck will give an overview of the recently completed study
A copy of the study may be obtained at the BSEE TAP website:

http://www.bsee.gov/Technology-and-Research/Technology-Assessment-Programs/Categories/Decommissioning/

R.S.V.P by January 29, 2015. Please contact Mohammad J Ashfaq, BSEE Pacific OCS Region, at (805) 384-6336 for more information and to let him know how many people are coming from your office. In Mr. Ashfaq's absence, please contact John Sanchez at (805) 384-6372.

Please email
mohammad.ashfaq@bsee.gov
john.sanchez@bsee.gov

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Conference Phone Number: **1 (866) 398-2885**

Passcode: **281 364 5179**

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If anyone needs the WebEx Link to attend remotely:
Ask, I can email to you.

Safety Briefing

- No fire alarms or drills planned

- Emergency Exits
  - Primary exit – Emergency exits towards the pool, exit the pool area towards Solar Drive
    - Primary muster point

    Hilton Garden Inn Sign, Solar Drive

  - Secondary exit – Exit side entrance, turn left, exit end of building

SAFETY ALERT

HSESA-TO-15-001

Hand Hazard – R/U Wireline Lubricators

Due to recent BBSO's, we would like to take an opportunity to remind you of hand and finger hazards associated with stabbing the wireline lubricator to the wireline valve assembly. At no time shall your hands or fingers be placed in the "red zone" as indicated on the drawing below. The lubricator shall be brought into position directly over the wireline valve assembly utilizing a tagline. Once it is brought into general alignment and it becomes necessary to place hands on the lubricator, ensure that your hands are not placed in potential hand hazards of the box and pin connections.

Take Care of Each Other. Work smart. Work safely. "NO ONE GETS HURT"
01-20-2015

DEDICATED

Ground Rules

- Anyone have issues with WebEx?
- Anyone have issues with Teleconference?

- We welcome questions and feedback
  - Hold questions until end
  - Those on Teleconference
    - Mute lines, please - * 6 (to mute and unmute)
    - We will allow questions from WebEx and Teleconference
      - WebEx raise hands, then will ask for your question, unmute and speak
  - If very detailed questions, I can follow up after presentation
  - We can follow up on questions via e-mail at a later date
    - **WSpeck@TSBOffshore.com**

- Please put your cell phones on silent

- Attendance
  - Please fill in information on sign-in sheet
  - Remote attendees, please email me notification of your attendance

Decommissioning Cost Update for Pacific OCS Region Facilities

Technology Assessment Program (TAP) Study

For

United States Department of the Interior
Bureau of Safety and Environmental Enforcement

Agenda

- Introductions
- Overview of Project
  - Objective
  - Summary of Changes
  - Assumptions
  - Project Groupings
- Decommissioning Cost Estimate Results
- Discussion / Questions

13:00 – 14:30	Presentation
14:30 – 14:40	break
14:40 – 15:00	Presentation
15:00 – 16:00	Discussion & questions

Introductions

BSEE Pacific OCS
760 Paseo Camarillo, Suite 102
Camarillo, CA 93010

TSB Offshore, Inc.
24955 Interstate 45 North
The Woodlands, TX 77380

Project Overview

- BSEE develops decommissioning cost estimates every five (5) years for the purpose of assessing the ability of lessees to comply with the decommissioning requirements, and assist in decisions for supplemental bond requirements

- Objective of this study:
  - Provide cost update to the 2009 TAP report – Decommissioning Cost Update for Removing Pacific Outer Continental Shelf Region Oil and Gas Facilities, January 2010
  - Review, revise and update decommissioning scenarios, planning and engineering costs and methodologies assumed in the 2009 TAP report
  - Update costs of each phase of decommissioning process

Current Pacific OCS Inventory

Platform	Water Depth (ft)	Estimated Removal Weight (tons)*	Year Installed**	Field / Unit
A	188	3,457	1968	Dos Cuadras
B	190	3,457	1968	Dos Cuadras
C	192	3,457	1977	Dos Cuadras
Edith	161	8,038	1983	Beta
Ellen	265	9,600	1980	Beta
Elly	255	9,400	1980	Beta
Eureka	700	29,000	1984	Beta
Gail	739	29,993	1987	Sockeye
Gilda	205	8,042	1981	Santa Clara
Gina	95	1,006	1980	Hueneme
Grace	318	8,390	1979	Santa Clara
Habitat	290	7,564	1981	Pitas Point
Harmony	1,198	65,089	1989	Hondo
Harvest	675	29,040	1985	Pt. Arguello
Henry	173	2,832	1979	Carpinteria
Heritage	1,075	56,196	1989	Pescado, Sacate
Hermosa	603	27,330	1985	Pt. Arguello
Hidalgo	430	21,050	1986	Pt. Arguello, Rocky Point
Hillhouse	190	3,100	1969	Dos Cuadras
Hogan	154	3,672	1967	Carpinteria
Hondo	842	23,550	1976	Hondo
Houchin	163	4,227	1968	Carpinteria
Irene	242	7,100	1985	Pt. Pedernales, Tranquillon Ridge

Summary of Changes

- Project groupings changed
  - Impacts Mob/Demob
- Only Derrick Barge (DB) 500 and DB 2000 used
  - Significant impact
- Well P&A summations included Meals/lodging, supply boat
  - Significant impact
- Conductor removal used actual dimensions
  - 3 class casing jacks, minor impact
- Jacket sectioning used on larger jackets
  - Minor impact in diving/cutting costs
- Lifting barge used for deeper reach, jacket sectioning
  - Significant savings over using DB4000

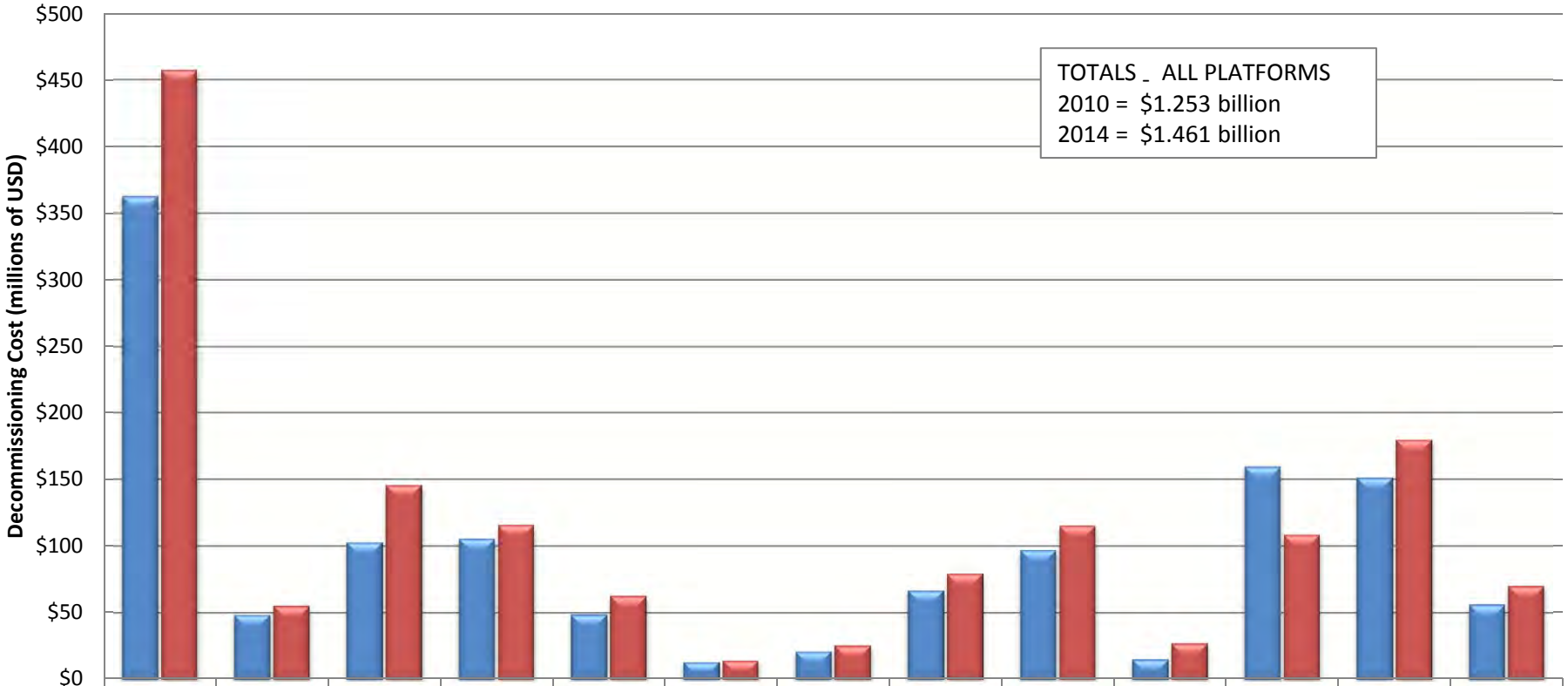
Summary of Changes - Continued

- Pipeline inventory corrected
  - Significant impact to certain structures
- Saturation diving removed when not required, <200’
- Included use of dive vessel, dynamic positioned (DP) dive vessel when required
- Material disposal costs updated by current rates and construction inflation
- Total POCSR decommissioning costs increased from $1.253 to $1.46 billion, +16.6%

Cost Summary by Platform

Platform	2010 Decommissioning Costs	2014 Decommissioning Costs	% Increase
Platform A	$25.5 MM	$36.2 MM	41.3%
Platform B	$30.5 MM	$32.6 MM	6.7%
Platform C	$23.6 MM	$28.2 MM	19.1%
Edith	$29.2 MM	$30.3 MM	4.0%
Ellen	$35.9 MM	$41.9 MM	16.6%
Elly	$21.3 MM	$27.4 MM	28.1%
Eureka	$94.2 MM	$121.2 MM	28.6%
Gail	$88.8 MM	$103.2 MM	16.1%
Gilda	$42.8 MM	$59.4 MM	38.8%
Gina	$12.0 MM	$16.7 MM	39.0%
Grace	$41.6 MM	$42.9 MM	2.9%
Habitat	$28.6 MM	$34.4 MM	20.0%
Harmony	$155.9 MM	$184.7 MM	18.4%
Harvest	$88.2 MM	$99.7 MM	12.9%
Henry	$18.6 MM	$21.6 MM	16.2%
Heritage	$149.6 MM	$173.6 MM	16.0%
Hermosa	$80.3 MM	$90.1 MM	12.1%
Hidalgo	$67.9 MM	$73.9 MM	8.8%
Hillhouse	$26.0 MM	$31.6 MM	21.2%
Hogan	$34.4 MM	$38.1 MM	10.5%
Hondo	$91.6 MM	$100.1 MM	9.2%
Houchin	$33.0 MM	$36.3 MM	9.9%
Irene	$32.6 MM	$37.1 MM	13.5%
Total POCSR	**$1,252,996,877**	**$ 1,460,939,031**	**16.6%**

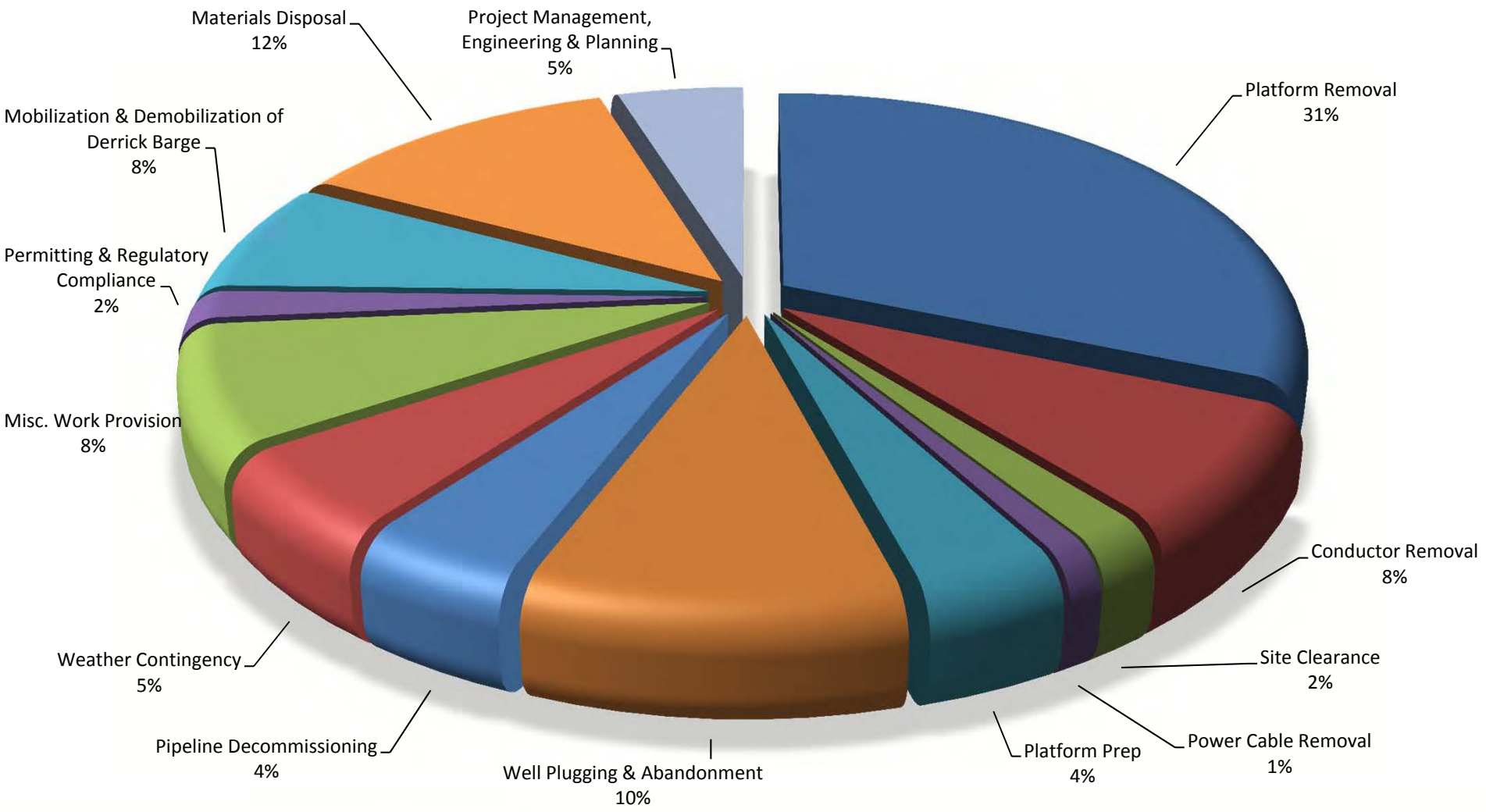
POCSR Total Decommissioning Costs by Task and Year
All Platforms



	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
2010	$363.276	$48.934	$103.092	$105.995	$49.027	$13.463	$21.464	$66.961	$97.471	$15.330	$159.840	$151.723	$56.420
2014	$457.816	$55.393	$146.188	$116.471	$62.909	$14.445	$25.624	$79.620	$115.791	$27.300	$108.900	$180.175	$70.308

Cost Percentage by Category

Decommissioning Cost Percentages by Category



Assumptions

- Costs are estimated in 2014 U.S. Dollars.
- Conventional state-of-the-art technology (reverse installation using DB's) will be used to remove all of the decks.
- Jackets will be sectioned and removed using conventional technology.
- Jacket sectioning method will be utilized on the larger jackets deeper than 300' deep.
  - Project II – Eureka
  - Project V – except Irene
  - Project VI – all platforms (Harmony, Heritage, Hondo)
- The lifting barge cost will be distributed across the project platforms that require its use.

Assumptions - Continued

- Platforms will be completely removed and transported to shore for disposal.
- Explosives will not be used during the decommissioning process.
- Pipelines routed to shore will be removed from the 200 foot water depth level to the State Tidelands boundary; pipeline segments between platforms on the OCS will be decommissioned in place; OCS pipeline segments in greater than 200 feet of water depth will be decommissioned in place.
- Power cables will be completely removed from the OCS to the State Tidelands boundary.
- No salvage or resale value has been considered for the structures, pipelines or power cables that are removed.

Assumptions - Continued

- During each project a total of 2-6 platforms will be decommissioned using DB's mobilized from Asia.
- One DB mobilization/demobilization cost is included for each of the six projects.
- The round-trip mobilization/demobilization times for derrick barges (DB's) is 100 days for a DB having a 500 or 2,000 ton maximum lift capability (DB 500, DB 2000) mobilized from Southeast Asia.
- The weather contingency downtimes for demolition operations are: 15% for the Point Arguello area, 10% for the Santa Barbara Channel area, and 5% for the South Coast area.
- No downtime is assumed due to the presence of whales or marine mammals.

Pacific OCSR Project Groupings

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Platform	Year Installed	Water Depth (feet)	Deck Weight (tons)	Jacket Weight (tons)	Projected DB Lift Capability for Jackets & Decks (tons)
Project I – POO, LLC					
Hogan	1967	154	2,259	1,263	500
Houchin	1968	163	2,591	1,486	500
Project II Beta Operating Company, LLC					
Eureka	1984	700	8,000	19,000	2,000
Elly	1980	255	4,700	3,300	2,000
Ellen	1980	265	5,300	3,200	2,000
Edith	1983	161	4,134	3,454	2,000
Project III – DCOR, LLC					
A	1968	188	1,357	1,500	2,000
B	1968	190	1,357	1,500	2,000
C	1977	192	1,357	1,500	2,000
Henry	1979	173	1,371	1,311	2,000
Hillhouse	1969	190	1,200	1,500	2,000
Project IV DCOR, LLC					
Gina	1980	95	447	434	2,000
Gilda	1981	205	3,792	3,220	2,000
Habitat	1981	290	3,514	2,550	2,000
Project V – FMO&G LLC and Venoco, Inc.					
Gail	1987	739	7,693	18,300	2,000
Grace	1979	318	3,800	3,090	2,000
Harvest	1985	675	9,024	16,633	2,000
Hermosa	1985	603	7,830	17,000	2,000
Hildalgo	1986	430	8,100	10,950	2,000
Irene	1985	242	2,500	3,100	2,000
Project VI – ExxonMobil Company					
Harmony	1989	1,198	9,839	42,900	2,000
Heritage	1989	1,075	9,826	32,420	2,000
Hondo	1976	842	8,450	12,200	2,000

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Costs Included

- Project Management, Engineering and Planning
- Permitting and Regulatory Compliance
- Platform Preparation
- Well Plugging and Abandonment
- Conductor Removal
- Pipeline and Power Cable Decommissioning
- Mobilization and Demobilization of DB's
- Platform Removal
- Materials Disposal
- Site Clearance
- Provisional Work and Weather Contingency Factors

Costs NOT Included

- All non-federal water items: State and onshore pipelines, power cables, marine terminals, piers, and onshore oil and gas processing facilities
- The costs of remediating any potential impacts from shell mounds
- Cost from delays in permitting process
- Cost from mitigations that could be placed by stakeholders, and permitting entities
- Costs for equipment modifications or special equipment that could be required to meet the local air emission standards
- Costs for equipment that could be installed on the platforms in the future
- Costs for special/unique expertise required to perform the work (preliminary, during operations, and post operations)
- Costs for worst case scenarios (accidents, earthquakes, blowouts, etc)
- Costs for training
- Costs for PR work
- Costs for partial removal

Derrick Barge Selection

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Selection Factors:

- Safety
  - Crane Capacity
  - Fewer lifts result in less dive time and less active load lift time; decreasing risk
  - Ocean Faring Capabilities
  - Proper Certification
  - Offshore Experience and Safety Record
- Efficiency
  - Large enough crane capacity for planned deck modules and jacket sections
  - Recommend small piece removal method
- Cost
  - Shortest Mob/Demob Time
  - Cheapest DB within crane capacity project parameters while still adhering to above criteria

Project Management, Engineering and Planning

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Platform	Factor	Pre-Engineering Costs	Total Engineering Costs
A	0.08	$21,676,762	$1,734,141
B	0.08	$19,637,521	$1,571,002
C	0.08	$16,353,619	$1,308,290
Edith	0.08	$16,893,949	$1,351,516
Ellen	0.08	$24,977,706	$1,998,216
Elly	0.08	$14,522,776	$1,161,822
Eureka	0.08	$81,557,978	$6,524,638
Gail	0.08	$64,570,313	$5,165,625
Gilda	0.08	$35,912,003	$2,872,960
Gina	0.08	$7,167,336	$573,387
Grace	0.08	$26,925,354	$2,154,028
Habitat	0.08	$17,931,106	$1,434,488
Harmony	0.08	$110,096,616	$8,807,729
Harvest	0.08	$60,439,767	$4,835,181
Henry	0.08	$11,956,703	$956,536
Heritage	0.08	$105,588,798	$8,447,104
Hermosa	0.08	$54,462,108	$4,356,969
Hidalgo	0.08	$44,981,986	$3,598,559
Hillhouse	0.08	$18,831,571	$1,506,526
Hogan	0.08	$20,305,206	$1,624,416
Hondo	0.08	$62,799,143	$5,023,931
Houchin	0.08	$18,851,023	$1,508,082
Irene	0.08	$22,405,873	$1,792,470
Total	-	-	$70,307,617

Includes Costs of:

- Well P&A
- Platform Prep & Marine Growth Removal
- Conductor Removal
- Pipeline Abandonment
- Power Cable Removal
- Platform Removal
- Site Clearance

Permitting – Federal

Agency	Permit/Approval	Regulated Activity	Authority
Bureau of Ocean Energy Management (BOEM)	Coordinates NEPA Analysis	Responsible for OCS lease administration (including lease adjudication), and ensuring compliance with bonding requirements and lease terms and conditions. Performs environmental analysis on behalf of BSEE.	Outer Continental Shelf Lands Act, 30 CFR § 550 and 30 CFR § 556
Bureau of Safety and Environmental Enforcement (BSEE)	Approval of Final Decommissioning Application	Responsible for approving OCS decommissioning applications and enforcing safety and environmental regulations.	Outer Continental Shelf Lands Act 30 CFR 250 Subpart Q, Decommissioning Activities NTL 2009-P04 NTL 2010-P-05 43 U.S. Code 1334
US Army Corps of Engineers (ACOE)	Section 404 permit Section 10 permit	Responsible for: (1) issuing permits for discharges of dredged or fill material in U.S. waters; (2) issuing permits for construction of any structure in or over the navigable waters of the U.S.	Clean Water Act, Section 404 Rivers and Harbors Act, Section 10
United States Fish & Wildlife Service (USFWS)		Responsible for ensuring protection of threatened and endangered species (e.g., sea otters and certain bird species), pursuant to the Endangered Species Act (ESA).	Endangered Species Act 16 USCA 1513 50 CFR Section 17
Environmental Protection Agency	NPDES permits	Responsible for issuing National Pollution Discharge Elimination System (NPDES) permits for discharges of pollutants from point sources to surface waters.	Clean Water Act
United States Coast Guard (USCG)	Navigation consultation Notice to Mariners	Responsible for ensuring navigation safety, proper use of aids to navigation, and managing responses to any unauthorized discharges including oil spills.	Ports and Waterways Safety Act Oil Pollution Act of 1990 33 CFR – Coast Guard
U.S. Department of Transportation, Pipeline and Hazardous Material Safety Administration	Pipeline abandonment applications	Responsible for ensuring pipeline safety and overseeing abandonment of pipelines for DOT jurisdictional pipelines.	Natural Gas Pipeline Safety Act Hazardous Liquid Pipeline Safety Act Hazardous Materials Transportation Act
National Marine Fisheries Service	ESA, Section 7 for marine species Marine Mammal Protection Act Essential Fish Habitat Assessment	Impacts to federally-listed and species proposed for listing. Protection of Marine Mammals including impacts associated with explosives use. Managed Marine Fish Resources	Endangered Species Act Marine Mammal Protection Act Magnuson-Stevens Fishery Conservation and Management Act

Permitting – State

Agency	Permit/Approval	Regulated Activity	Applicable Project Components	Authority
California State Lands Commission (CSLC)	Lead agency for CEQA documentation. Pipeline lease agreement termination	Review of environmental impacts in area of jurisdiction. Removal of components in State Territorial Waters.	State Waters portion of project.	CEQA California Public Resources Code Section 6500
California Coastal Commission (CCC)	Coastal Development Permit/Federal Consistency	Any development within designated coastal zone.	Marine component and onshore facilities within Coastal Zone.	California Coastal Act Coastal Zone Management Act
California Department of Fish and Wildlife	Explosives Use Approval and State Endangered Species Consultation. Section 1601	Activities in our effecting State Waters resources. Onshore activities effecting onshore resources including streams and wetlands	Marine component and onshore facilities within Coastal Zone.	CEQA Section 1601 State Endangered Species Act
Regional Water Quality Control Board (RWQCB)	Section 401 certification	Discharges that may affect surface and ground water quality.	Marine and onshore operations	Clean Water Act (CWA) Porter-Cologne State Water Quality Act (1969).
State Historical Preservation Officer (SHPO)	Section 106 review and compliance	Impacts to historic and pre-historic resources.	None identified at this time.	National Historic Preserva-tion Act 36 CFR 800

Permitting – Local

County Department of Planning and Building (County)	Coastal Development Permit Conditional Use Permit	Removal of project components located landward of State Lease within unincorporated portions of County (beach & onshore segments). Activities within designated coastal zone.	Onshore facilities within Coastal Zone.	County General Plan / Coastal Plan
County Air Pollution Control Board (APCD)	Air quality emissions review; Permit to Operate/Authority to Construct (PTO/ATC) and Portable Engine Permits	Air emission outputs associated with project decommissioning activities.	Combined marine and onshore project components.	1990 Clean Air Act CEQA review

Permitting and Regulatory Compliance Cost – Base Case

Cost Factors	Cost Per Project
1. Initial and Final Platform Removal Plan (Decommissioning Plan) Preparation (does not included decommissioning engineering costs)	$250,000
2. Data Collection and Field Surveys	$100,000
3. Prepare NEPA and CEQA Documents (EIS/EIR)	$2,500,000
4. Agency Processing Fees and Staff Time	
• Application Fees	$100,000
• Agency Staff Time	$120,000
• Applicant Consultant Support	$160,000
5. Environmental Mitigation Requirements	
• Mitigation Fees (Air and Fisheries)	$1,000,000
• Marine Mammal Monitoring	$120,000
6. Mitigation Monitoring and Compliance	$200,000
Total Cost Per Project	**$4,550,000**

- This table includes costs for all federal, state, and local requirements of the designated structures.
- The cost factors 1, 2, 5, and 6 vary due to number of platforms. This is due to the additional locations and processes required to generate the required documentation.

Permitting and Regulatory Compliance Cost – Variance

		# of platforms in project				
Cost Factors	Cost Per Project (Base Case)	2	3	4	5	6
1.Initial and Final Platform Removal Plan (Decommissioning Plan) Preparation (does not included decommissioning engineering costs)	$250,000	$200,000	$220,000	$250,000	$275,000	$295,000
2.Data Collection and Field Surveys	$100,000	$70,000	$90,000	$110,000	$130,000	$150,000
3.Prepare NEPA and CEQA Documents (EIS/EIR)	$2,500,000					
4. Agency Processing Fees and Staff Time						
·Application Fees	$100,000					
·Agency Staff Time	$120,000					
·Applicant Consultant Support	$160,000					
5.Environmental Mitigation Requirements						
·Mitigation Fees (Air and Fisheries)	$1,000,000	$762,000	$886,000	$1,011,000	$1,134,000	$1,261,000
·Marine Mammal Monitoring	$120,000	$90,000	$110,000	$130,000	$150,000	$170,000
6.Mitigation Monitoring and Compliance	$200,000	$130,000	$170,000	$210,000	$250,000	$290,000

Project	Cost per Project	Qty of Platforms
Project I	$ 4,132,000	2
Project II	$ 4,591,000	4
Project III	$ 4,819,000	5
Project IV	$ 4,356,000	3
Project V	$ 5,046,000	6
Project VI	$ 4,356,000	3

Permitting and Regulatory Compliance Cost

This table includes costs for all federal, state, and local requirements of the designated structures.

These costs are adjusted for size of platforms and number of platforms where they influence costs.

Platform Name	Project	Cost Per Platform*
A	Project III	$ 1,180,645
B	Project III	$ 1,069,808
C	Project III	$ 891,505
Edith	Project II	$ 564,683
Ellen	Project II	$ 830,961
Elly	Project II	$ 482,045
Eureka	Project II	$ 2,713,271
Gail	Project V	$ 1,190,846
Gilda	Project IV	$ 2,565,674
Gina	Project IV	$ 513,998
Grace	Project V	$ 494,498
Habitat	Project IV	$ 1,280,654
Harmony	Project VI	$ 1,720,616
Harvest	Project V	$ 1,115,156
Henry	Project III	$ 650,555
Heritage	Project VI	$ 1,650,914
Hermosa	Project V	$ 1,004,144
Hidalgo	Project V	$ 827,534
Hillhouse	Project III	$ 1,026,437
Hogan	Project I	$ 2,140,366
Hondo	Project VI	$ 984,446
Houchin	Project I	$ 1,987,482
Irene	Project V	$ 413,762

*Cost per platform distributed based on percentage cost of platform relative to the total offshore operations of the project.

Platform Preparation and Marine Growth Removal

Platform	Topside Platform Preparation Days	Topside Platform Preparation Spread Rate	Topside Preparation Cost	Marine Growth Removal Cost	U/W Inspection Cost	Total Cost*
A	19	$29,310	$556,890	$510,081	$26,400	$1,093,371
B	19	$29,310	$556,890	$510,081	$26,400	$1,093,371
C	19	$29,310	$556,890	$510,081	$26,400	$1,093,371
Edith	18	$29,310	$527,580	$765,120	$27,000	$1,319,700
Ellen	20	$29,310	$586,200	$765,120	$38,500	$1,389,820
Elly	46	$29,310	$1,348,260	$765,120	$38,500	$2,151,880
Eureka	31	$58,620	$1,817,220	$1,113,483	$38,500	$2,969,203
Gail	43	$58,620	$2,520,660	$1,113,483	$35,667	$3,669,810
Gilda	44	$29,310	$1,289,640	$765,120	$41,333	$2,096,093
Gina	22	$29,310	$644,820	$191,280	$28,000	$864,100
Grace	35	$29,310	$1,025,850	$765,120	$35,667	$1,826,637
Habitat	39	$29,310	$1,143,090	$765,120	$41,333	$1,949,543
Harmony	59	$58,620	$3,458,580	$2,017,137	$41,333	$5,517,050
Harvest	55	$58,620	$3,224,100	$1,113,483	$35,667	$4,373,250
Henry	31	$29,310	$908,610	$510,081	$26,400	$1,445,091
Heritage	55	$58,620	$3,224,100	$1,613,710	$41,333	$4,879,143
Hermosa	55	$58,620	$3,224,100	$1,113,483	$35,667	$4,373,250
Hidalgo	47	$58,620	$2,755,140	$916,986	$35,667	$3,707,793
Hillhouse	32	$29,310	$937,920	$510,081	$26,400	$1,474,401
Hogan	19	$29,310	$556,890	$510,081	$30,000	$1,096,971
Hondo	50	$58,620	$2,931,000	$1,113,483	$41,333	$4,085,816
Houchin	19	$29,310	$556,890	$510,081	$30,000	$1,096,971
Irene	35	$29,310	$1,025,850	$765,120	$35,667	$1,826,637
Totals	-	-	**$35,377,170**	**$19,232,935**	**$783,167**	**$55,393,272**

Well Plug and Abandonment Schematics

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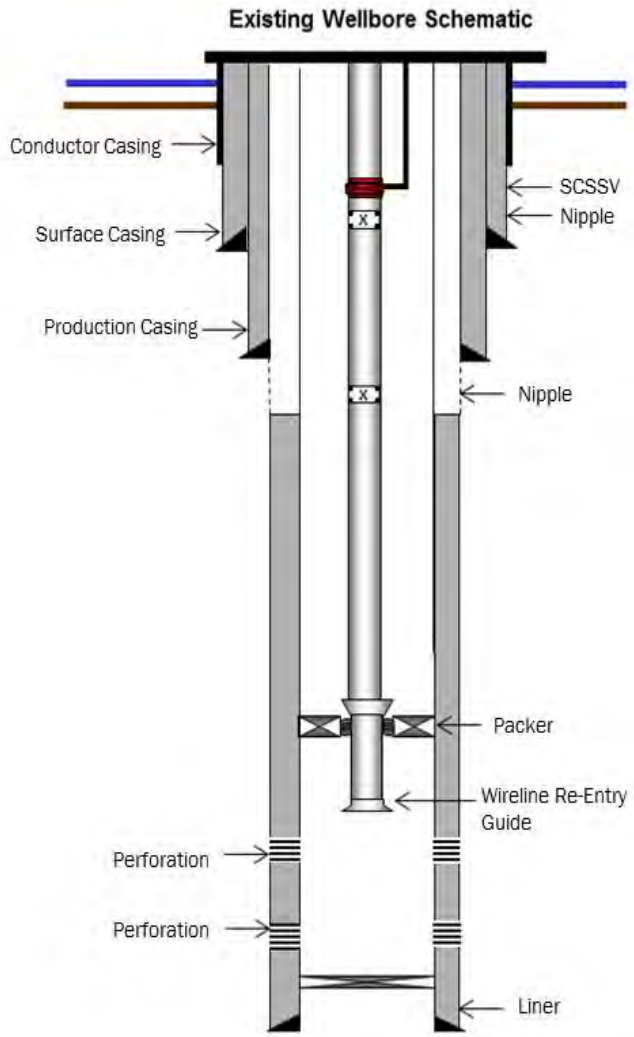

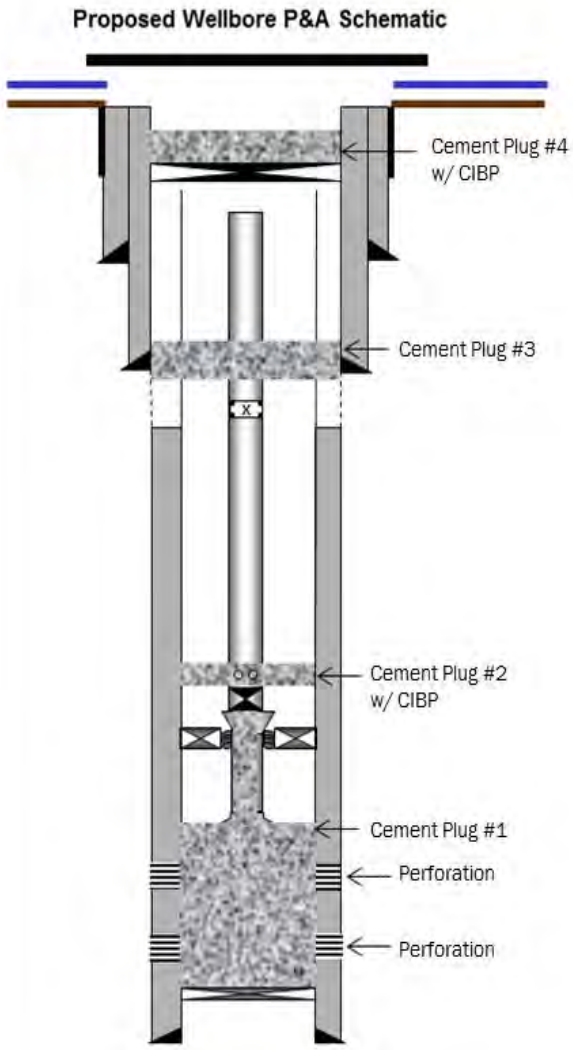

Well Plug and Abandonment Costs

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Platform	Wells to P&A	Average Well Depth (ft)	Rig-less P&A Costs
A	52	2,500	$7,860,872
B	57	2,500	$8,591,436
C	38	2,500	$5,839,296
Edith	18	4,500	$3,067,060
Ellen	61	6,700	$10,650,264
Elly	0	0	$0
Eureka	50	6,500	$8,906,812
Gail	27	8,400	$5,487,404
Gilda	63	7,900	$11,270,732
Gina	12	6,000	$2,196,384
Grace	28	-	$5,934,732
Habitat	20	12,000	$3,791,340
Harmony	34	11,900	$9,234,448
Harvest	19	10,000	$4,932,940
Henry	23	2,500	$3,677,608
Heritage	48	10,300	$13,311,836
Hermosa	13	9,500	$3,379,396
Hidalgo	14	10,700	$3,916,752
Hillhouse	47	2,500	$7,160,312
Hogan	39	5,400	$7,246,752
Hondo	28	12,700	$6,845,608
Houchin	35	5,100	$6,596,292
Irene	26	9,800	$6,289,360
Total:	**752**	-	**$146,187,636**
Average per well:	-	6,814	$194,140
Average per platform:	33	6,814	$6,644,893

Well Type (Level of Complexity)	Average Cost / Well
Low cost well (3 days to plug and abandon)	$140,112
Med low cost well (4 days to plug and abandon)	$170,116
Med high cost well (5 days to plug and abandon)	$224,120
High cost well (8+ days to plug and abandon)	$328,532
Mobilization cost (shared across number of wells per platform)	$152,600

Well Plug and Abandonment Cost Changes

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- Ellen = +2 med/low wells
- Gail = +2 med/low, +1 high = +3 wells
- Irene = +2 high wells

- Spread rate increases
  - Catering/meals/lodging increase
  - Fuel costs increase
  - Consumables increase greatly (per well +350%)
  - Cement increase

- Calculation sheets
  - Certain line items not included in summation
  - Corrected to include all, lodging meals, supply boat

Conductor Removal Data

Platform	Water Depth	Conductor Count	Conductor Lengths (ft)	Total Conductor Lengths (ft)	Conductor OD (in)	Conductor Weight per Foot (lbs)	Casing #1 OD (in)	Casing #1 Weight per Foot (lbs)	Casing #2 OD (in)	Casing #2 Weight per Foot (lbs)	Casing #3 OD (in)	Casing #3 Weight per Foot (lbs)	Total Weight per Foot (lbs)	Total Weight (tons)
A	188	55	268	14,740	13.375	68.0	9.625	40.0	6.625	24.0	-	-	195	26.16
B	190	57	270	15,390	13.375	68.0	9.625	40.0	6.625	24.0	-	-	195	26.36
C	192	43	272	11,696	20.000	106.5	13.375	54.5	-	-	-	-	387	52.57
Edith	161	23	241	5,543	13.375	54.5	9.625	36.0			-	-	187	22.54
Ellen	265	63	345	21,735	13.375	54.5	9.625	36.0	-	-	-	-	187	32.27
Elly	255	-	-	-	-	-	-	-	-	-	-	-	-	-
Eureka	700	50	780	39,000	13.375	54.5	9.625	36.0	-	-	-	-	187	72.95
Gail	739	27	819	22,113	24.000	201.0	18.625	94.5	13.375	68.0	9.625	43.5	639	261.62
Gilda	205	64	285	18,240	20.000	94.0	13.375	54.5	9.625	43.5	-	-	356	50.79
Gina	95	12	175	2,100	20.000	94.0	13.375	54.5	9.625	43.5	-	-	356	31.19
Grace	318	36	398	14,328	24.000	201.0	18.625	106.0	13.375	72.0	9.625	47.0	654	130.11
Habitat	290	20	370	7,400	24.000	201.0	18.625	87.5	13.375	72.0	-	-	553	102.36
Harmony	1,198	52	1,278	66,456	24.000	201.0	18.625	87.5	13.375	68.0	7.0	26.0	645	412.00
Harvest	675	25	755	18,875	24.000	201.0	18.625	106.0	13.375	68.0	9.625	43.5	647	244.41
Henry	173	24	253	6,072	20.000	106.5	13.375	54.5	-	-	-	-	387	48.90
Heritage	1,075	49	1,155	56,595	20.000	133.0	16.000	75.0	13.375	68.0	9.625	47.0	459	265.22
Hermosa	603	16	683	10,928	24.000	201.0	18.625	106.0	13.375	68.0	9.625	43.5	647	221.10
Hidalgo	430	14	510	7,140	24.000	201.0	18.625	106.0	13.375	72.0	9.625	47.0	654	166.72
Hillhouse	190	52	272	14,144	20.000	106.5	13.375	54.5	-	-	-	-	387	52.18
Hogan	154	39	234	9,126	18.625	87.5	10.750	40.5	9.625	47.0	-	-	313	36.56
Hondo	842	28	922	25,816	20.000	133.0	16.000	75.0	13.375	68.0	9.625	47.0	459	211.72
Houchin	163	35	243	8,505	18.625	87.5	10.750	40.5	7.000	23.0	-	-	317	38.56
Irene	242	26	322	8,372	20.000	133.0	13.375	61.0	9.625	47.0	-	-	397	63.90
Totals	**-**	**810**	**-**	**404,314**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2,570.19**

Conductor Removal Costs

Platform	Water Depth	Conductor Count	Conductor Length (ft)	Total Conductor Length (ft)	Removal Cost w / Casing Jacks (USD)
A	188	55	268	14,740	$4,461,149
B	190	57	270	15,390	$4,646,643
C	192	43	272	11,696	$3,608,703
Edith	161	23	241	5,543	$1,757,793
Ellen	265	63	345	21,735	$6,280,334
Elly	257	0	0	0	$0
Eureka	700	50	780	39,000	$10,538,628
Gail	739	27	819	22,113	$6,123,643
Gilda	205	64	285	18,240	$5,505,252
Gina	95	12	175	2,100	$819,314
Grace	318	36	398	14,328	$4,238,620
Habitat	29	20	370	7,400	$2,297,302
Harmony	1,198	52	1,278	66,456	$18,183,128
Harvest	675	25	755	18,875	$5,319,490
Henry	173	24	253	6,072	$1,965,108
Heritage	1,075	49	1,155	56,595	$15,542,468
Hermosa	603	16	683	10,928	$3,177,260
Hidalgo	430	14	510	7,140	$2,188,946
Hillhouse	192	52	272	14,144	$4,330,534
Hogan	154	39	234	9,126	$2,906,310
Hondo	842	28	922	25,816	$7,252,563
Houchin	163	35	243	8,505	$2,706,725
Irene	242	26	322	8,372	$2,621,044
Totals	**-**	**810**		**404,314**	**$116,470,957**

Pipeline Decommissioning

- Pipelines routed to shore will be removed from the 200 foot water depth level to the State Tidelands boundary
- Pipeline segments between platforms on the OCS will be decommissioned in place
- OCS pipeline segments in greater than 200 feet of water depth will be decommissioned in place
- Dive Vessel and Crane Barge Sectioning Method
  - ROV or Diver Retrieval
  - Sectioned on Crane Barge
  - Cargo Barge Transport to Shore

Current Pipeline Inventory

From	Pipeline			To		Pipeline Operator
Platform	Type	Flow	Length	Platform	Onshore Facility	
C	6" Oil/Water	→	2,600	B		DCOR, LLC
	6" Gas	→	2,600			
	6" Water	←	2,600			
B	6" Water	→	2,600	A		
	8" Gas	→	2,600			
	8" Oil	→	2,600			
	12" Out of Service	-	2,600			
	12" Out of Service	-	2,600			
A	6" Water	→	59,200		Rincon	
	12" Oil/Water	→	59,200			
	12" Gas	→	59,200			
	12" Out of Service	-	59,200			
	12" Out of Service	-	59,200			
Hillhouse	8" Oil	→	2,560	A		
	6" Gas	→	2,560			
	6" Spare	→	2,560			
	8" Out of Service	-	2,560			
Henry	8" Oil	→	12,900	Hillhouse		
	6" Gas	→	12,900			
	8" Water	→	12,900			
Houchin	10" Oil/Water	→	3,800	Hogan		Pacific Operators Offshore, LLC (POO, LLC)
	10" Gas Lift	→	3,800			
	12" Gas	→	3,800			
	4" Water	→	3,800			
Hogan	10" Oil/Water	→	30,250		La Conchita	
	10" Gas Lift	←	30,250			
	12" Gas	→	30,250			
	4" Water	←	30,250			

Current Pipeline Inventory Continued

From	Pipeline			To		Pipeline Operator
Platform	Type	Flow	Length	Platform	Onshore Facility	
Gail	8" Gas	→	32,000	Grace		Venoco, Inc.
	8" Oil	→	32,500			
	8" Sour Gas	→	33,200			
Grace	10" Gas	→	80,600		Carpinteria	
	16" Oil	→	80,600			
Habitat	12" Gas	→	43,980		Carpinteria	DCOR, LLC
Gina	10" Oil/Water	→	31,690		Mandalay	
	6" Gas	→	31,690			
Gilda	12" Oil/Water	→	52,000		Mandalay	
	10" Gas	→	52,000			
	6" Water	←	52,000			
Edith	6" Gas	→	35,000	Eva*		
	6" Oil	→	6,000	Ellen/Elly		
Eureka	10" Oil/Water	→	8,350	Ellen/Elly		Beta Operating Company, LLC
	10" Gross Fluids	←	8,400			
	6" Gas	→	8,500			
	12" Out of Service	-	8,400			
	10" Out of Service	-	8,400			
Ellen / Elly	16" Oil	→	80,200		San Pedro	

Current Pipeline Inventory Continued

From	Pipeline			To		Pipeline Operator
Platform	Type	Flow	Length	Platform	Onshore Facility	
Heritage	20" Oil/Water	→	35,800	Harmony		ExxonMobil Corporation
	12" Gas	→	35,350			
Harmony	20" Oil	→	50,950		Las Flores Canyon	
	12" Water	←	51,000			
	12" Gas	→	15,350	Hondo		
Hondo	14" Oil/Water	→	15,350	Harmony		
	12" Gas	→	36,400		Las Flores Canyon	
Hidalgo	16" Oil/Water	→	25,450	Hermosa		Freeport-McMoRan Oil & Gas (FMO&G)
	10" Sour Gas	→	25,100			
Harvest	12" Oil/Water	→	15,500	Hermosa		
	8" Sour Gas	→	15,050			
Hermosa	24" Oil/Water	→	54,900		Gaviota	
	20" Sour Gas	→	54,800			
Irene	20" Oil/Water	→	53,050		Orcutt	
	8" Water	←	53,050			
	8" Sour Gas	→	53,050			

Pipeline Decommissioning Costs

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Platform	Water Depth (ft)	Total Length of OCS Pipeline (mi)	Length of Pipeline to be removed (mi)	Total Pipeline Cost
A	188	56.0	33.3	$ 3,819,491
B	190	2.5	0.0	$ 864,193
C	192	1.5	0.0	$ 528,022
Edith	161	7.8	0.0	$ 331,960
Ellen	265	0.0	0.0	$ -
Elly	257	15.2	4.5	$ 4,712,730
Eureka	700	15.2	0.0	$ 8,876,961
Gail	739	18.5	0.0	$ 3,440,911
Gilda	205	29.5	12.5	$ 9,094,834
Gina	95	12.0	0.6	$ 485,330
Grace	318	30.5	4.6	$ 3,090,490
Habitat	290	8.3	0.9	$ 2,506,038
Harmony	1198	22.2	1.1	$ 4,993,843
Harvest	675	5.8	0.0	$ 2,240,868
Henry	173	7.3	0.0	$ 495,927
Heritage	1075	13.5	0.0	$ 2,909,824
Hermosa	603	20.8	1.1	$ 2,763,334
Hidalgo	430	9.6	0.0	$ 2,286,225
Hillhouse	192	1.9	0.0	$ 704,681
Hogan	154	22.9	0.6	$ 1,014,770
Hondo	842	9.8	0.6	$ 3,158,141
Houchin	163	2.9	0.0	$ 639,259
Irene	242	30.1	4.6	$ 3,951,074
Average Cost per mile	-	-		$186,921
Total	-	**343.8**	**64.4**	**$ 62,908,903**

Pipeline Decommissioning Costs - changes

- Platform A & B
  - Pipelines starting point corrected – swapped from prev
    - A -> remove
    - B -> abandon in place
  - 2 x 12” OOS lines included A & B (correction)
- Elly
  - DP2 DSV – mob/demob, increased spread rate
- Eureka
  - 10” OOS, 12” OOS included
  - Improved steps reduce cost in others
- Gilda
  - 6” water line added
  - DP2 DSV – mob/demob, increased spread rate
- Habitat
  - Sat + DP2 DSV – mob/demob, increased spread rate

Pipeline Decommissioning Costs - changes

- Hillhouse
  - 8” OOS line added
- Hogan
  - Cargo Barge plus spread cost increase
- Houchin
  - 10” lift line added
  - 4” water line added
  - Spread rate and steps added
- Irene
  - DP2 DSV – mob/demob, increased spread rate

Power Cable Removal

- Full Removal to State Tidelands Boundary
- Reel Barge Method Too Costly Due to Mob From GOM
- Dive Vessel and Crane Barge Sectioning Method
  - ROV or Diver Retrieval
  - Sectioned on Crane Barge
  - Cargo Barge Transport to Shore

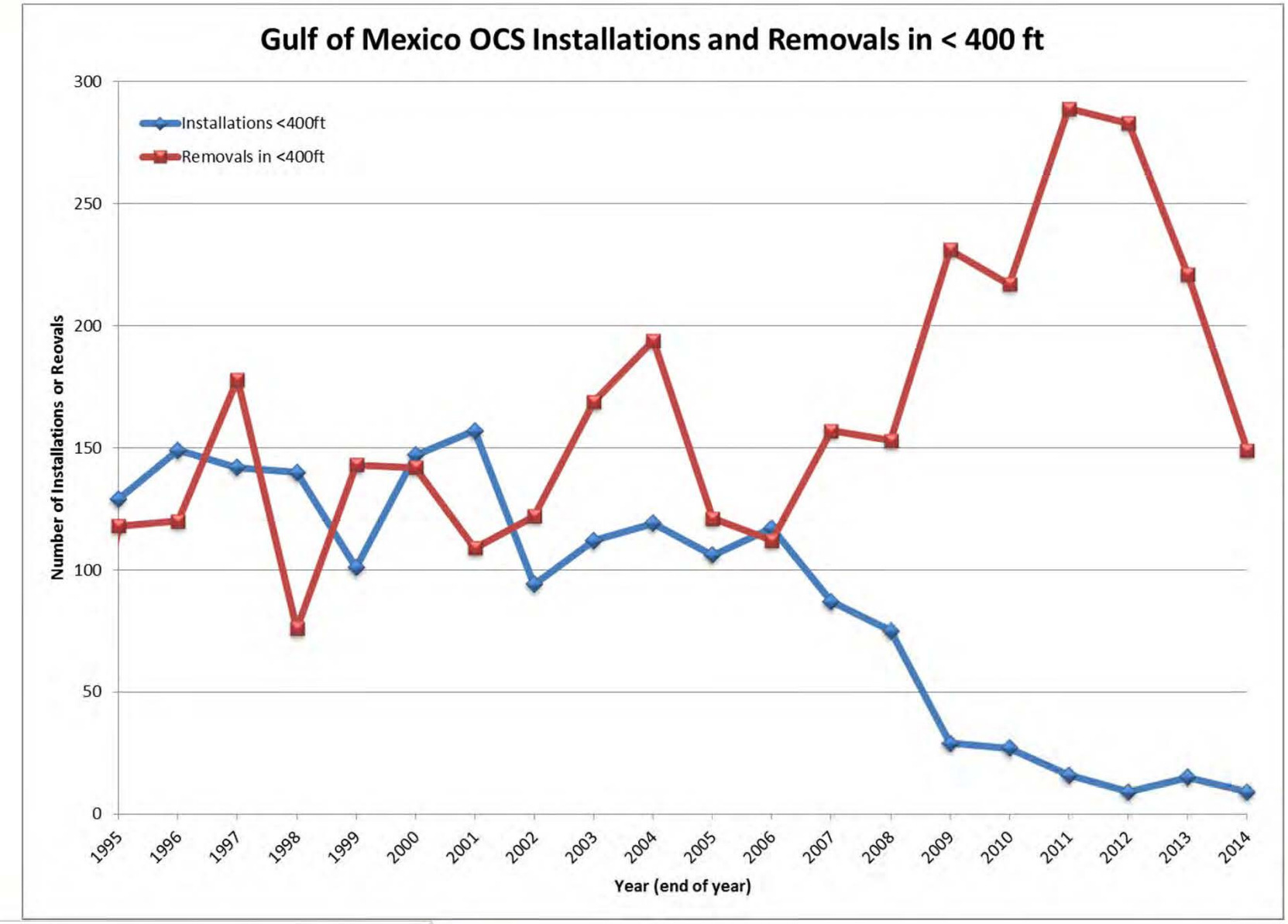
Power Cable Removal Cost

Cable Origin	Cable Terminus	Water Depth (ft)	Length of cable to be removed (mi)	Total Cost
A	B	188	0.5	$180,575
B	C	190	0.5	$180,575
C	Shore	192	5.0	$953,587
Edith	Shore	161	7.0	$1,230,590
Ellen^	Elly	265	0.0	$0
Elly		257	0.0	$0
Eureka*	Ellen (qty. 2)	700	2.9	$373,589
Gail		739	0.0	$0
Gilda	Shore	205	7.0	$1,267,549
Gina	Shore	95	0.3	$243,574
Grace		318	0.0	$0
Habitat	P/F A	290	3.7	$769,029
Harmony*	Shore (qty. 2)	1,198	11.3	$1,096,054
Harvest		675	0.0	$0
Henry	Hillhouse	173	2.5	$575,920
Heritage	Harmony	1,075	7.4	$3,221,819
Heritage	Shore	1,075	19.8	$1,348,592
Hermosa		603	0.0	$0
Hildalgo		430	0.0	$0
Hillhouse	Shore	192	3.4	$711,880
Hogan	Shore	154	0.9	$369,971
Hondo*	Harmony (qty. 2)	842	9.0	$922,327
Houchin	Hogan	163	0.7	$342,733
Irene	Shore	242	2.8	$656,477
Average Cost per mile	-	-	-	$170, 541
Total	-	-	84.7	$14,444,841

Derrick Barge Mobilization and Demobilization

Project	DB Lift Capability	Mob / Demob Cost Calculation	Cost Per Platform
Project I	500 ton	$ 165,000 x 100 days x 90% / 2 platforms	$7,425,000
Project II	2,000 ton	$ 209,000 x 100 days x 90% / 4 platforms	$4,702,500
Project III	2,000 ton	$ 209,000 x 100 days x 90% / 5 platforms	$3,762,000
Project IV	2,000 ton	$ 209,000 x 100 days x 90% / 3 platforms	$6,270,000
Project V	2,000 ton	$209,000 x 100 days x 90% / 6 platforms	$3,135,000
Project VI	2,000 ton	$209,000 x 100 days x 90% / 3 platforms	$6,270,000

- 500 ton and 2000 ton DBs are assumed to be mobilized from Asia with a 100 day two-way mob/demob time
- Derrick Barge Mobilization & Demobilization rates estimated as 90% of normal operating rates


Gulf of Mexico OCS Installations and Removals in < 400 ft
Installations <400ft
Removals in <400ft
Number of Installations or Reovals
300
250
200
150
100
50
0
1995
1996
1997
1998
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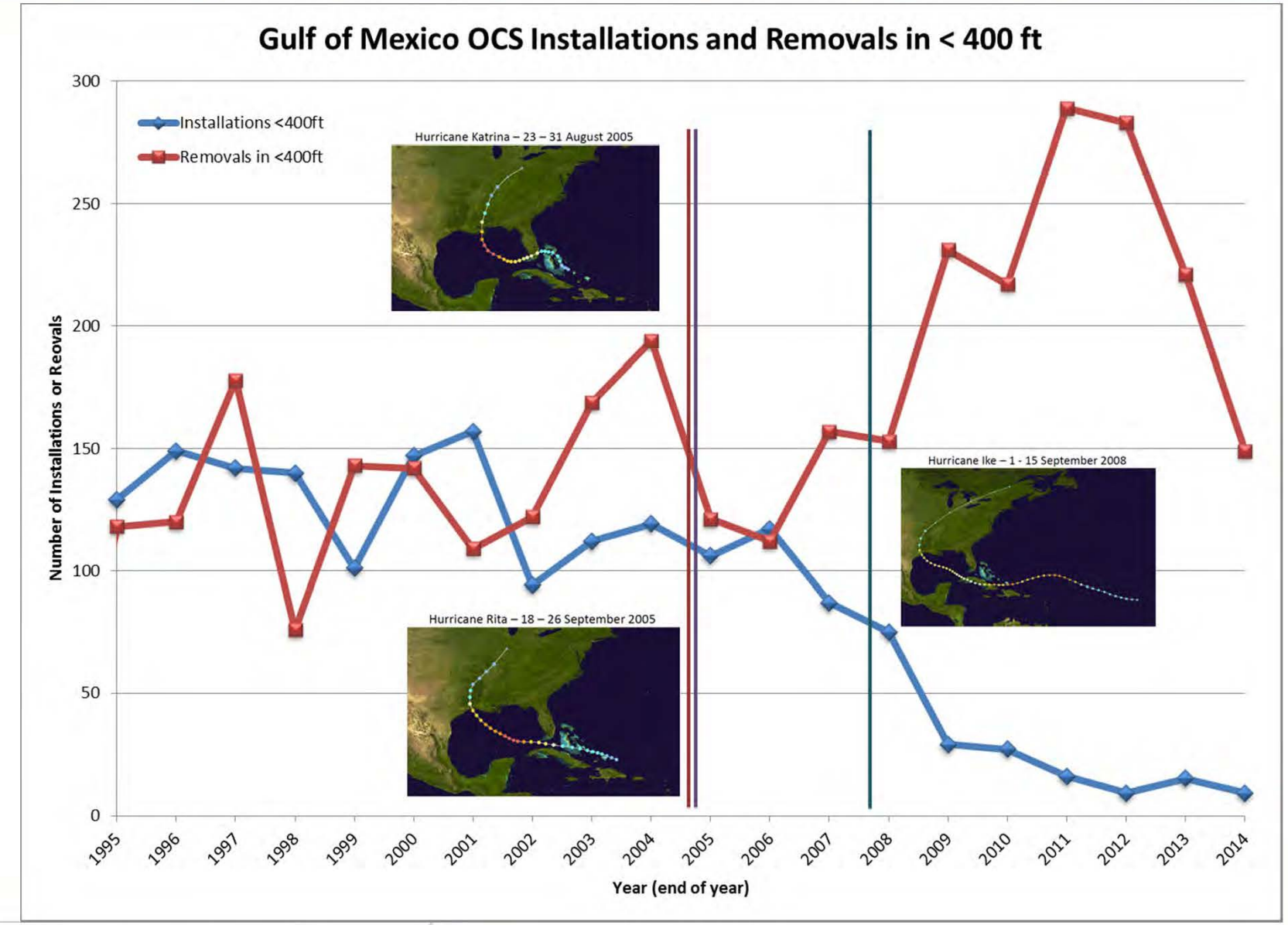
2014
Year (end of year)


Gulf of Mexico OCS Installations and Removals in < 400 ft
Installations <400ft
Removals in <400ft
Hurricane Katrina – 23 – 31 August 2005
Hurricane Ike – 1 - 15 September 2008
Hurricane Rita – 18 – 26 September 2005
Number of Installations or Reovals
Year (end of year)
0
50
100
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250
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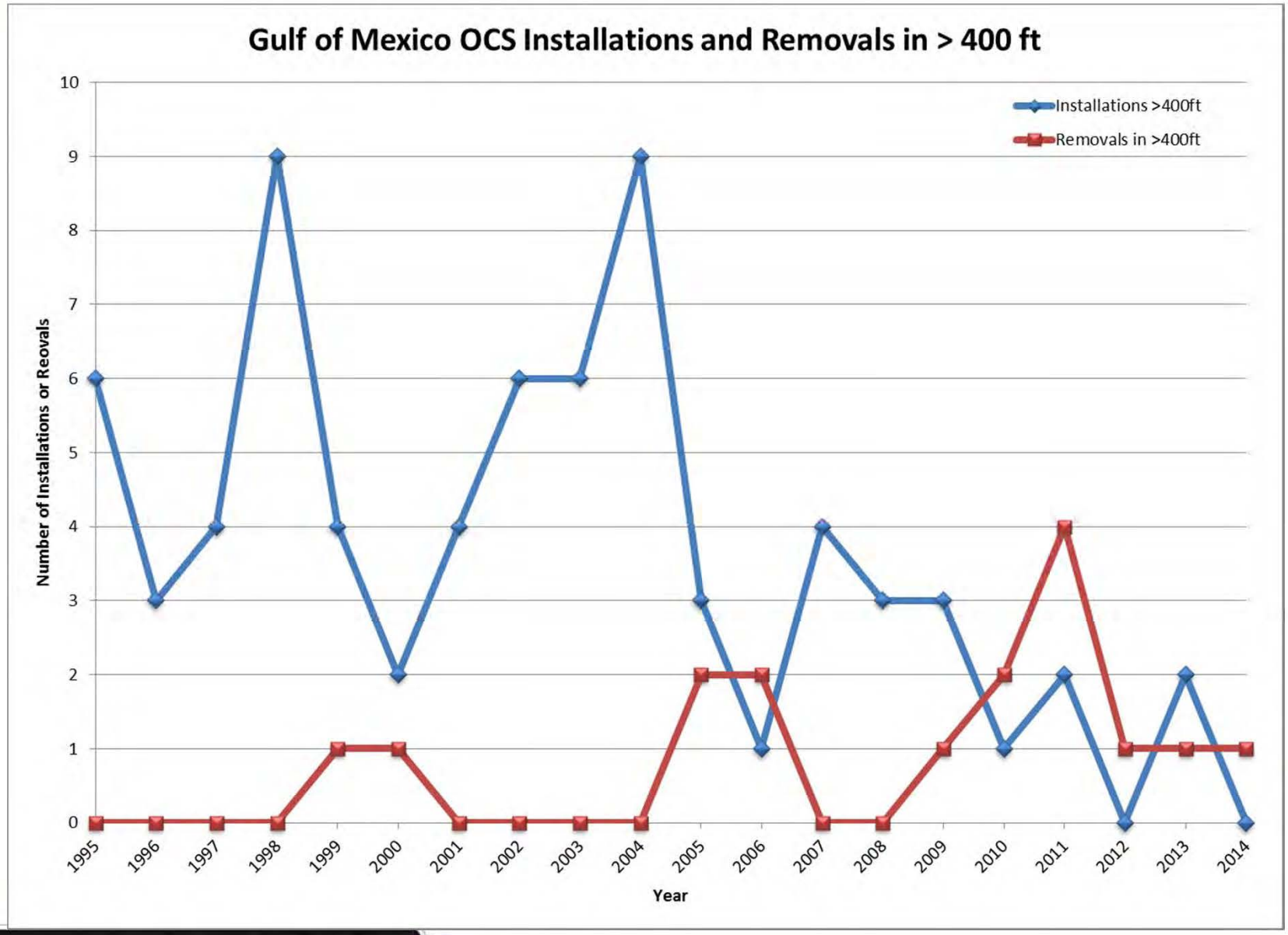
Gulf of Mexico OCS Installations and Removals in > 400 ft
Installations >400ft
Removals in >400ft
Number of Installations or Reovals
Year
0
1
2
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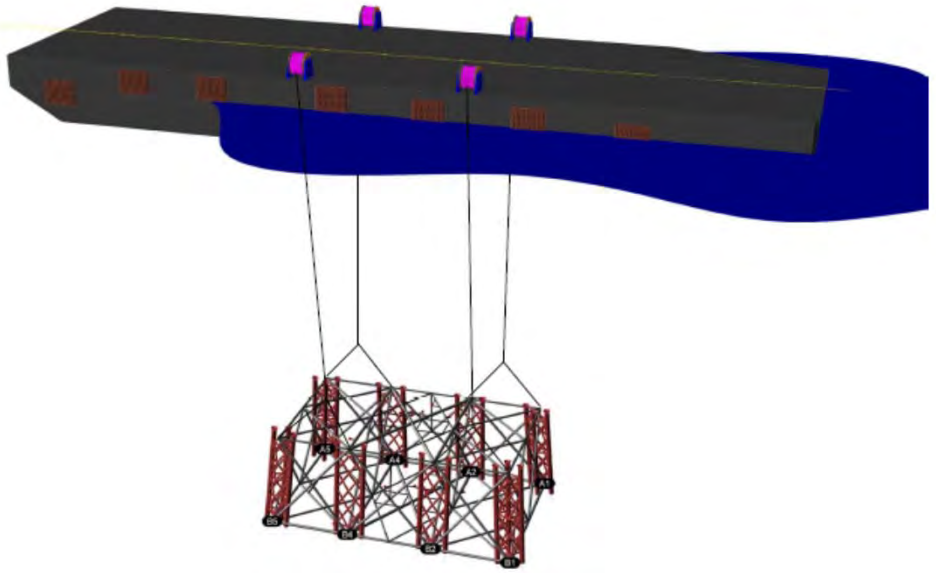
Lifting Barge

- Lifting barge used for reach, >300’ depth
- 4 x 500 ton winches
- Transfer load mid-water to DB2000



Lifting Barge Costs				
	Price Per Unit	Unit	Qty	Total
Winches	$ 2,500,000	ea	4	$ 10,000,000
Wire	$ 20	ft	20000	$ 400,000
Control panel	$375,000	ea	1	$ 375,000
Testing and Cert	$375,000	ea	1	$ 375,000
Barge for Install & removal	$ 6,240	day	140	$ 873,600
Total				$ 12,023,600

Project	Lifting Barge Cost	Lifting Barge Cost Per Platform
Project II Eureka (only)	$12,023,600	$12,023,600
Project V	$ 12,023,600 / 5 platforms (excluding Irene)	$2,404,720
Project VI	$ 12,023,600 / 3 platforms	$4,007,867

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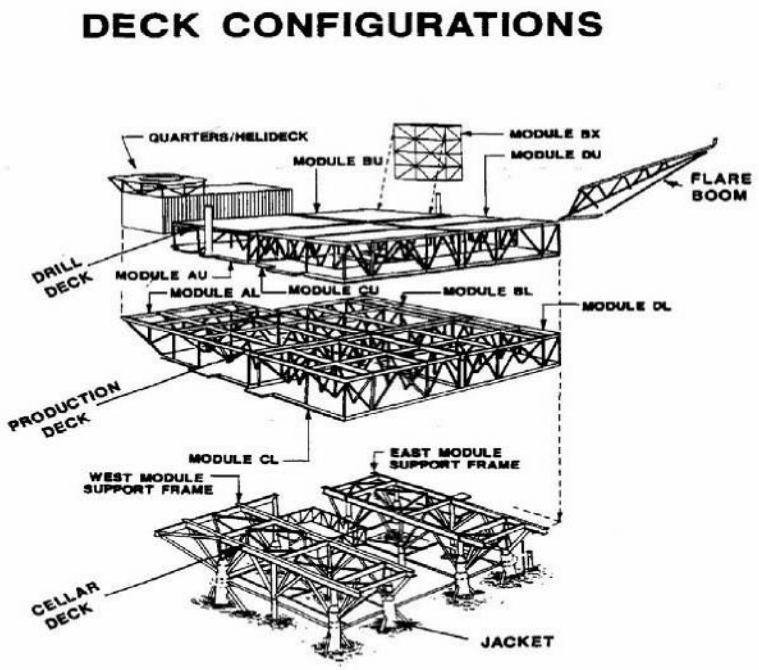
Topside Removal

- Removed in one piece or sectioned into modules small enough (40-50% of full crane capacity) for the DB crane to remove safely and efficiently
- Transport modules to shore via cargo barge



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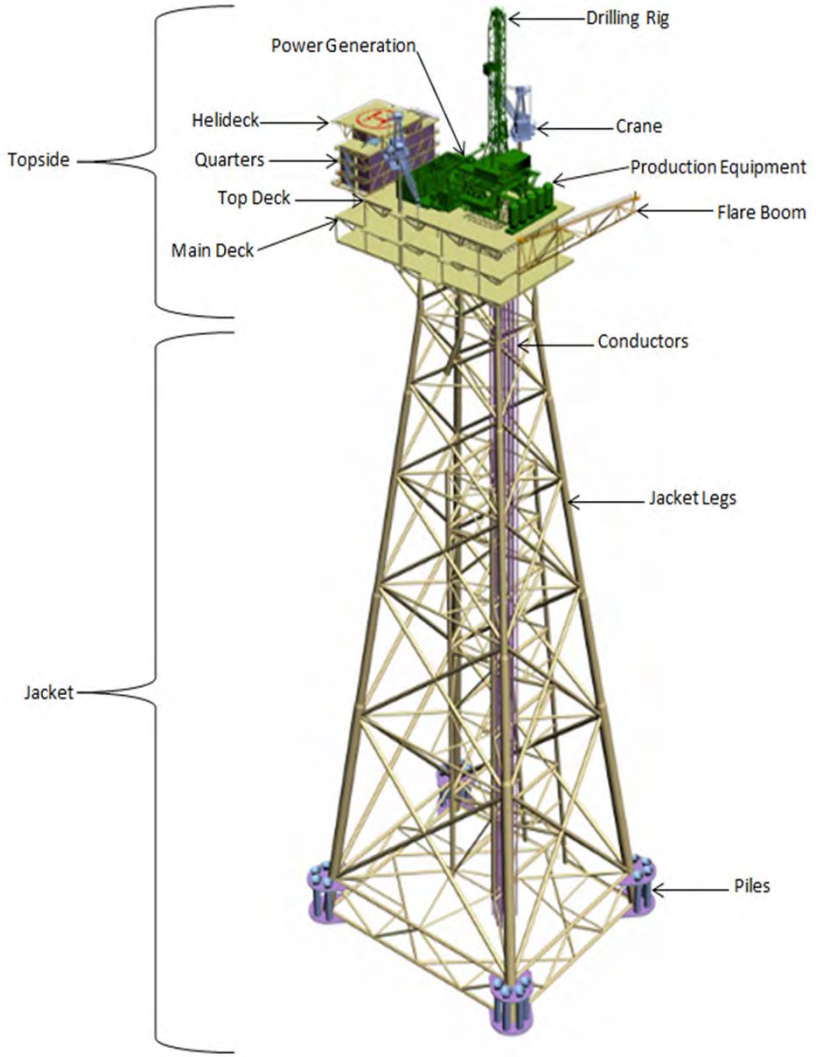
Jacket and Pile Removal

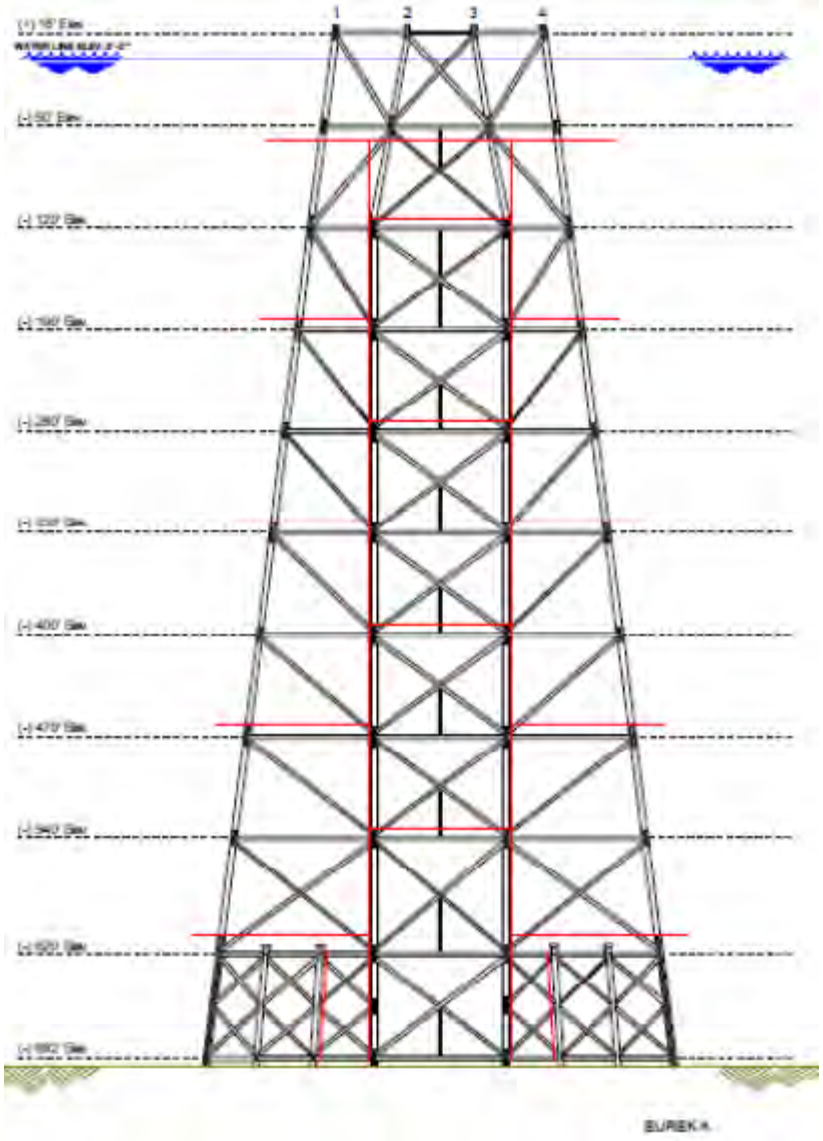
- Abrasively sever piles 15ft below mudline
- Removed in one piece or cut into sections small enough (40-50% of full crane capacity) for the DB crane to remove safely and efficiently
- Transport to shore via cargo barge



Platform Removal – Jacket Sectioning

Jacket and Pile Removal

- Abrasively sever piles 15ft below mudline
- Removed in 300 – 1600 ton pieces
  - Cut jacket sections
  - Lift section by lifting barge
  - Mid-water transfer of load to DB
  - Lift section onto CB
- Transport to shore via cargo barge



Platform Removal

Platform Name	Water Depth (ft)	Estimated Removal Weight (tons)*	Platform Removal Cost
A	188	3,457	$3,377,304
B	190	3,457	$3,377,303
C	192	3,457	$3,446,640
Edith	161	8,038	$8,302,845
Ellen	265	9,600	$5,773,287
Elly	255	9,400	$6,774,166
Eureka	700	29,000	$48,420,786
Gail	739	29,993	$44,376,545
Gilda	205	8,042	$5,793,542
Gina	95	1,006	$1,674,634
Grace	318	8,390	$10,362,875
Habitat	290	7,564	$5,733,853
Harmony	1,198	65,089	$69,600,093
Harvest	675	29,040	$42,101,220
Henry	173	2,832	$2,913,049
Heritage	1,075	56,196	$62,903,116
Hermosa	603	27,330	$39,296,869
Hidalgo	430	21,050	$31,410,271
Hillhouse	190	3,100	$3,565,764
Hogan	154	3,672	$6,786,432
Hondo	842	23,550	$39,062,689
Houchin	163	4,227	$6,585,043
Irene	242	7,100	$6,177,280
Total	-	-	**$457,815,606**

Material Disposal

- Evaluated to cost per ton
  - Site preparation
  - Materials
    - Handling
    - Offloading
    - Demolition
    - Scrap processing
- Potential for change
  - Space availability
  - Public opinion – environmental, smell & smoke
- Conductor and Pipeline disposal
  - Processing cost
  - Transport to landfill

Material Disposal

TSB OFFSHORE

Platform	Total Platform Disposal Costs	Conductor Disposal Costs	Power Cable Disposal Costs	Pipeline Disposal Costs	Total Disposal Costs
A	$1,534,908	$252,964	$4,000	$913,966	**$2,705,838**
B	$1,534,908	$264,119	$4,000	$0	**$1,803,027**
C	$1,534,908	$397,436	$40,000	$0	**$1,972,344**
Edith	$3,568,872	$91,145	$56,000	$0	**$3,716,017**
Ellen	$4,262,400	$357,395	$0	$0	**$4,619,795**
Elly	$4,173,600	$0	$0	$174,186	**$4,347,786**
Eureka	$12,876,000	$641,288	$23,200	$0	**$13,540,488**
Gail	$13,316,892	$1,241,892	$0	$0	**$14,558,784**
Gilda	$3,570,648	$571,528	$56,000	$308,693	**$4,506,869**
Gina	$446,664	$65,801	$2,400	$13,048	**$527,913**
Grace	$3,725,160	$823,509	$0	$139,668	**$4,688,337**
Habitat	$3,358,416	$359,911	$29,600	$27,535	**$3,775,462**
Harmony	$28,899,516	$3,766,667	$90,400	$48,492	**$32,805,075**
Harvest	$12,893,760	$1,074,253	$0	$0	**$13,968,013**
Henry	$1,257,408	$206,330	$20,000	$0	**$1,483,738**
Heritage	$24,951,024	$2,284,845	$217,600	$0	**$27,453,469**
Hermosa	$12,134,520	$621,957	$0	$75,723	**$12,832,200**
Hidalgo	$9,346,200	$410,375	$0	$0	**$9,756,575**
Hillhouse	$1,376,400	$480,620	$27,200	$0	**$1,884,220**
Hogan	$1,630,368	$250,705	$7,200	$14,679	**$1,902,952**
Hondo	$10,456,200	$1,042,240	$72,000	$18,356	**$11,588,796**
Houchin	$1,876,788	$237,267	$5,600	$0	**$2,119,655**
Irene	$3,152,400	$292,119	$22,400	$150,507	**$3,617,426**
Total	**$161,877,960**	**$15,734,366**	**$677,600**	**$1,884,853**	**$180,174,779**

Site Clearance

Platform Water Depth (<300 feet)		Platform Water Depth (>300 feet)	
Pre-Decommissioning SSS 3 days x $17,000	$51,000	Pre-Decommissioning SSS 3 days x $17,000	$51,000
Mob/Demob	$17,000	Mob/Demob	$17,000
Data Analysis	$15,000	Data Analysis	$15,000
	$83,000		$83,000
Post-Decommissioning SSS 3 days x $17,000	$51,000	Post-Decommissioning SSS 3 days x $17,000	$51,000
Mob/Demob	$17,000	Mob/Demob	$17,000
Data Analysis	$15,000	Data Analysis	$15,000
	$83,000		$83,000
ROV Deployment 7 days x $19,000	$133,000	ROV Deployment 14 days x $19,000	$226,000
Diving Spread (air/gas diving) 10 days x $30,000	$300,000	Diving Spread (saturation diving) 10 days x $76,000	$760,000
Test Trawl Program 7 days x $5,000	$35,000	Test Trawl Program 14 days x $5,000	$70,000
Shell Mound Surveys Geotechnical & Biological	$250,000	Shell Mound Surveys Geotechnical & Biological	$250,000
Total Cost	**$884,000**	**Total Cost**	**$1,472,000**

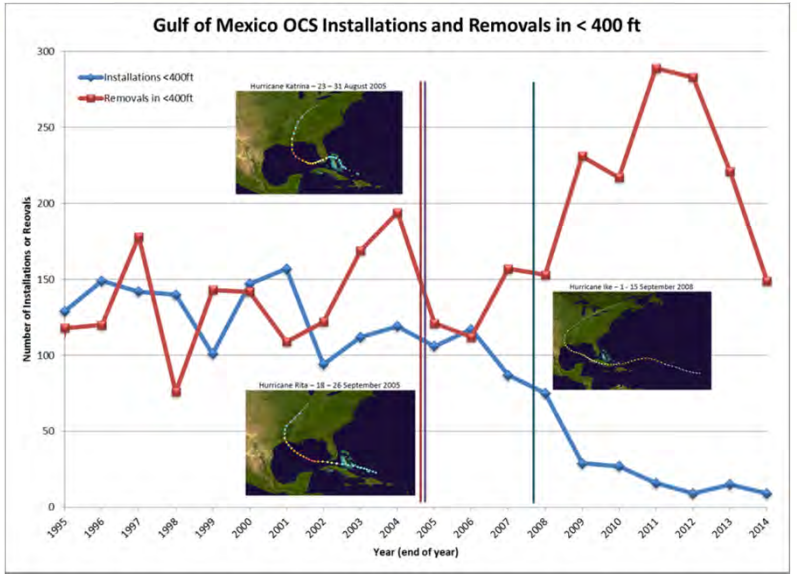
Total Costs by Category

TSB OFFSHORE

Platform Name	Platform Removal	Platform Prep	Well P&A	Conductor Removal	Pipeline Decomm.	Power Cable Removal	Site Clearance	Weather Contingency	Misc. Work Provision	Permitting & Regulatory Compliance	Mob & Demob of DB s	Materials Disposal	PMEP	Total
A	$3,377,304	$1,093,371	$7,860,872	$4,461,149	$3,819,491	$180,575	$884,000	$2,043,837	$3,065,755	$1,180,645	$3,762,000	$2,705,838	$1,734,141	$36,168,978
B	$3,377,303	$1,093,371	$8,591,436	$4,646,643	$864,193	$180,575	$884,000	$1,897,869	$2,846,803	$1,069,808	$3,762,000	$1,803,027	$1,571,002	$32,588,030
C	$3,446,640	$1,093,371	$5,839,296	$3,608,703	$528,022	$953,587	$884,000	$1,570,854	$2,356,282	$891,505	$3,762,000	$1,972,344	$1,308,290	$28,214,894
Edith	$8,302,845	$1,319,700	$3,067,060	$1,757,793	$331,960	$1,230,590	$884,000	$775,657	$2,326,971	$564,683	$4,702,500	$3,716,017	$1,351,516	$30,331,293
Ellen	$5,773,287	$1,389,820	$10,650,264	$6,280,334	$ -	$ -	$884,000	$1,184,332	$3,552,995	$830,961	$4,702,500	$4,619,795	$1,998,216	$41,866,505
Elly	$6,774,166	$2,151,880	$ -	-	$4,712,730	$ -	$884,000	$539,154	$1,617,462	$482,045	$4,702,500	$4,347,786	$1,161,822	$27,373,545
Eureka	$48,420,786	$2,969,203	$8,906,812	$10,538,628	$8,876,961	$373,589	$1,472,000	$3,035,127	$9,105,381	$2,713,271	$4,702,500	$13,540,488	$6,524,638	$121,179,383
Gail	$44,376,545	$3,669,809	$5,487,404	$6,123,643	$3,440,911	$ -	$1,472,000	$5,813,248	$8,719,872	$1,190,846	$3,135,000	$14,558,784	$5,165,625	$103,153,688
Gilda	$5,793,542	$2,096,094	$11,270,732	$5,505,252	$9,094,834	$1,267,549	$884,000	$2,912,356	$4,368,534	$2,565,674	$6,270,000	$4,506,869	$2,872,960	$59,408,396
Gina	$1,674,634	$864,100	$2,196,384	$819,314	$485,330	$243,574	$884,000	$665,057	$997,585	$513,998	$6,270,000	$527,913	$573,387	$16,715,276
Grace	$10,362,875	$1,826,637	$5,934,732	$4,238,620	$3,090,490	$ -	$1,472,000	$2,189,514	$3,284,271	$494,498	$3,135,000	$4,688,337	$2,154,028	$42,871,003
Habitat	$5,733,853	$1,949,544	$3,791,340	$2,297,302	$2,506,038	$769,029	$884,000	$1,472,894	$2,209,340	$1,280,654	$6,270,000	$3,775,462	$1,434,488	$34,373,944
Harmony	$69,600,093	$5,517,050	$9,234,448	$18,183,128	$4,993,843	$1,096,054	$1,472,000	$9,990,428	$14,985,642	$1,720,616	$6,270,000	$32,805,075	$8,807,729	$184,676,107
Harvest	$42,101,220	$4,373,249	$4,932,940	$5,319,490	$2,240,868	$ -	$1,472,000	$8,090,763	$8,090,763	$1,115,156	$3,135,000	$13,968,013	$4,835,181	$99,674,643
Henry	$2,913,049	$1,445,091	$3,677,608	$1,965,108	$495,927	$575,920	$884,000	$1,132,804	$1,699,207	$650,555	$3,762,000	$1,483,738	$956,536	$21,641,543
Heritage	$62,903,116	$4,879,143	$13,311,836	$15,542,468	$2,909,824	$4,570,411	$1,472,000	$9,677,484	$14,516,226	$1,650,914	$6,270,000	$27,453,469	$8,447,104	$173,603,996
Hermosa	$39,296,869	$4,373,249	$3,379,396	$3,177,260	$2,763,334	$ -	$1,472,000	$7,156,886	$7,156,886	$1,004,144	$3,135,000	$12,832,200	$4,356,969	$90,104,192
Hidalgo	$31,410,271	$3,707,793	$3,916,752	$2,188,946	$2,286,225	$ -	$1,472,000	$5,789,512	$5,789,512	$827,534	$3,135,000	$9,756,575	$3,598,559	$73,878,678
Hillhouse	$3,565,764	$1,474,401	$7,160,312	$4,330,534	$704,681	$711,880	$884,000	$1,817,832	$2,726,748	$1,026,437	$3,762,000	$1,884,220	$1,506,526	$31,555,334
Hogan	$6,786,432	$1,096,971	$7,246,752	$2,906,310	$1,014,770	$369,971	$884,000	$1,875,489	$2,813,234	$2,140,366	$7,425,000	$1,902,952	$1,624,416	$38,086,664
Hondo	$39,062,689	$4,085,816	$6,845,608	$7,252,563	$3,158,141	$922,327	$1,472,000	$5,379,072	$8,068,609	$984,446	$6,270,000	$11,588,796	$5,023,931	$100,113,998
Houchin	$6,585,043	$1,096,971	$6,596,292	$2,706,725	$639,259	$342,733	$884,000	$1,766,040	$2,649,060	$1,987,482	$7,425,000	$2,119,655	$1,508,082	$36,306,342
Irene	$6,177,280	$1,826,637	$6,289,360	$2,621,044	$3,951,074	$656,477	$884,000	$2,844,034	$2,844,034	$413,762	$3,135,000	$3,617,426	$1,792,470	$37,052,599
Total	**$457,815,606**	**$55,393,273**	**$146,187,636**	**$116,470,957**	**$62,908,903**	**$14,444,841**	**$25,624,000**	**$79,620,244**	**$115,791,175**	**$27,300,000**	**$108,900,000**	**$180,174,779**	**$70,307,617**	**$1,460,939,031**

Price adjustments

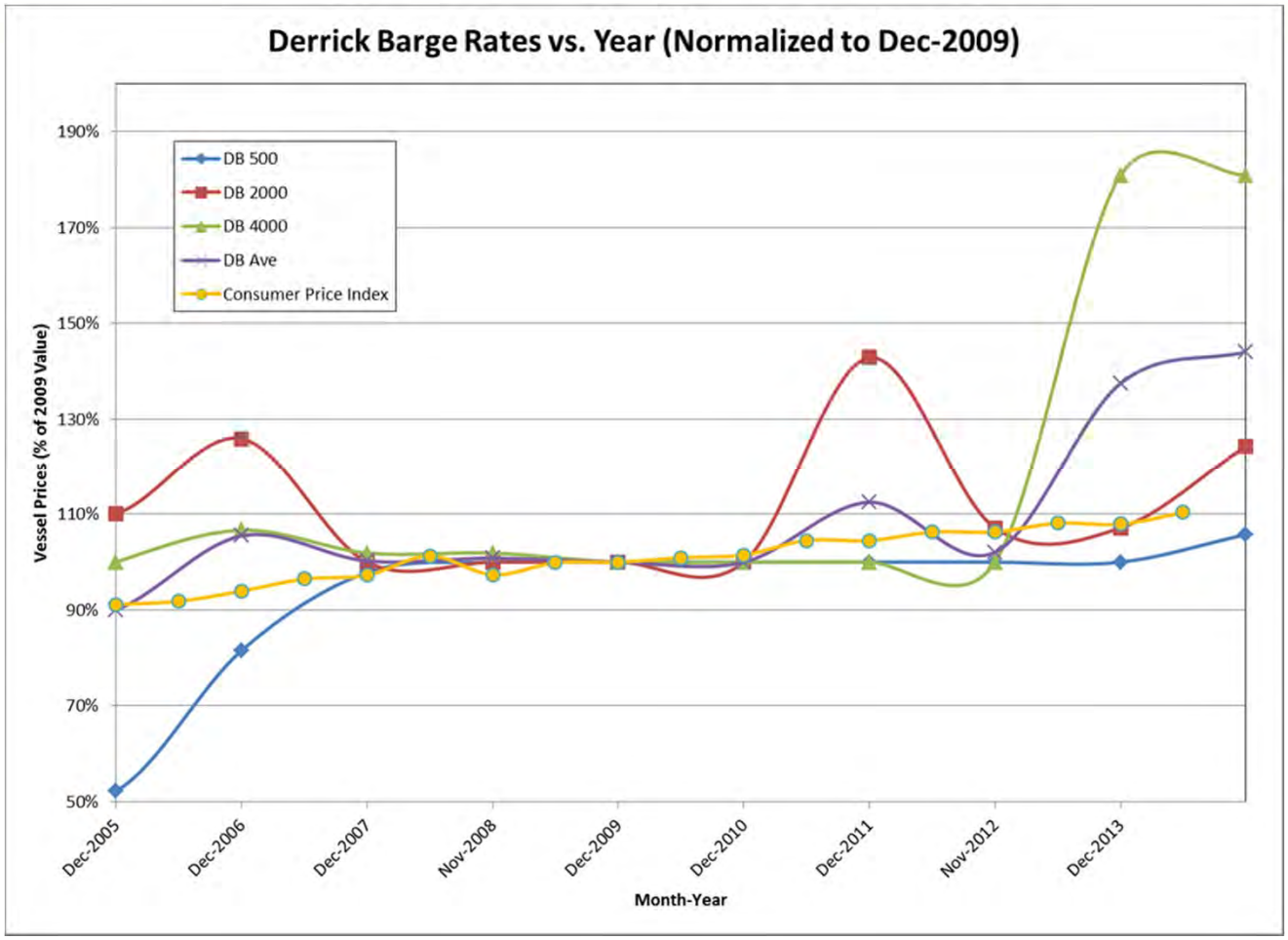
- Challenges
  - Activity level – projected
  - Permitting time frame
  - Vendor availability



- Activity & oil price impact
  - Depressed
  - Demand impact
  - Largest impact is GoM tropical storms

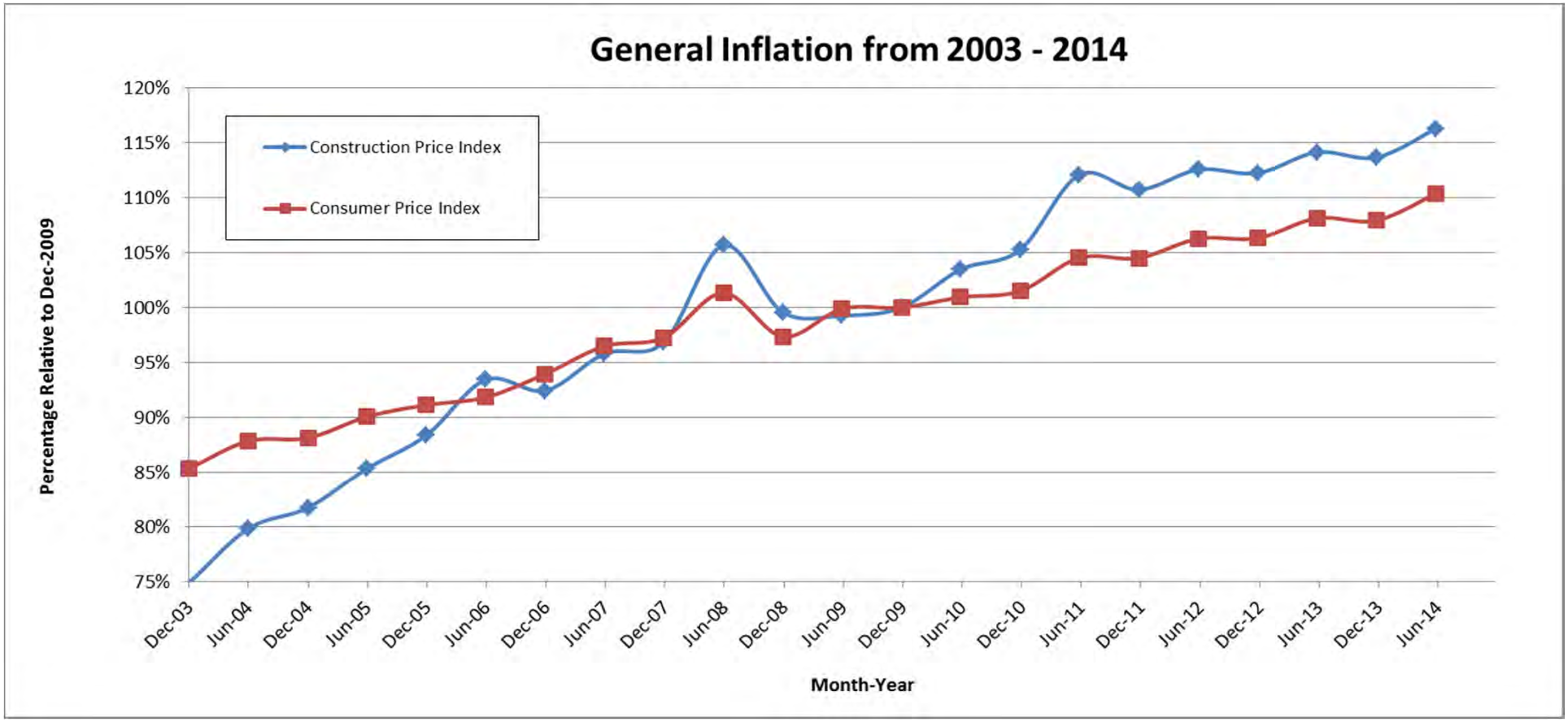
- Alternative vessels
  - Day rate
  - Mob/Demob

Inflation Study



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average
Derrick Barge Average Change (%)	1.524%	13.892%	15.198%	0.474%	-3.491%	-1.062%	9.326%	-21.435%	8.789%	6.814%	3.0%
Consumer Price Index (%)	3.42%	3.10%	3.52%	0.09%	2.72%	1.50%	2.96%	1.74%	1.50%	2.07%	2.3%

Inflation Study



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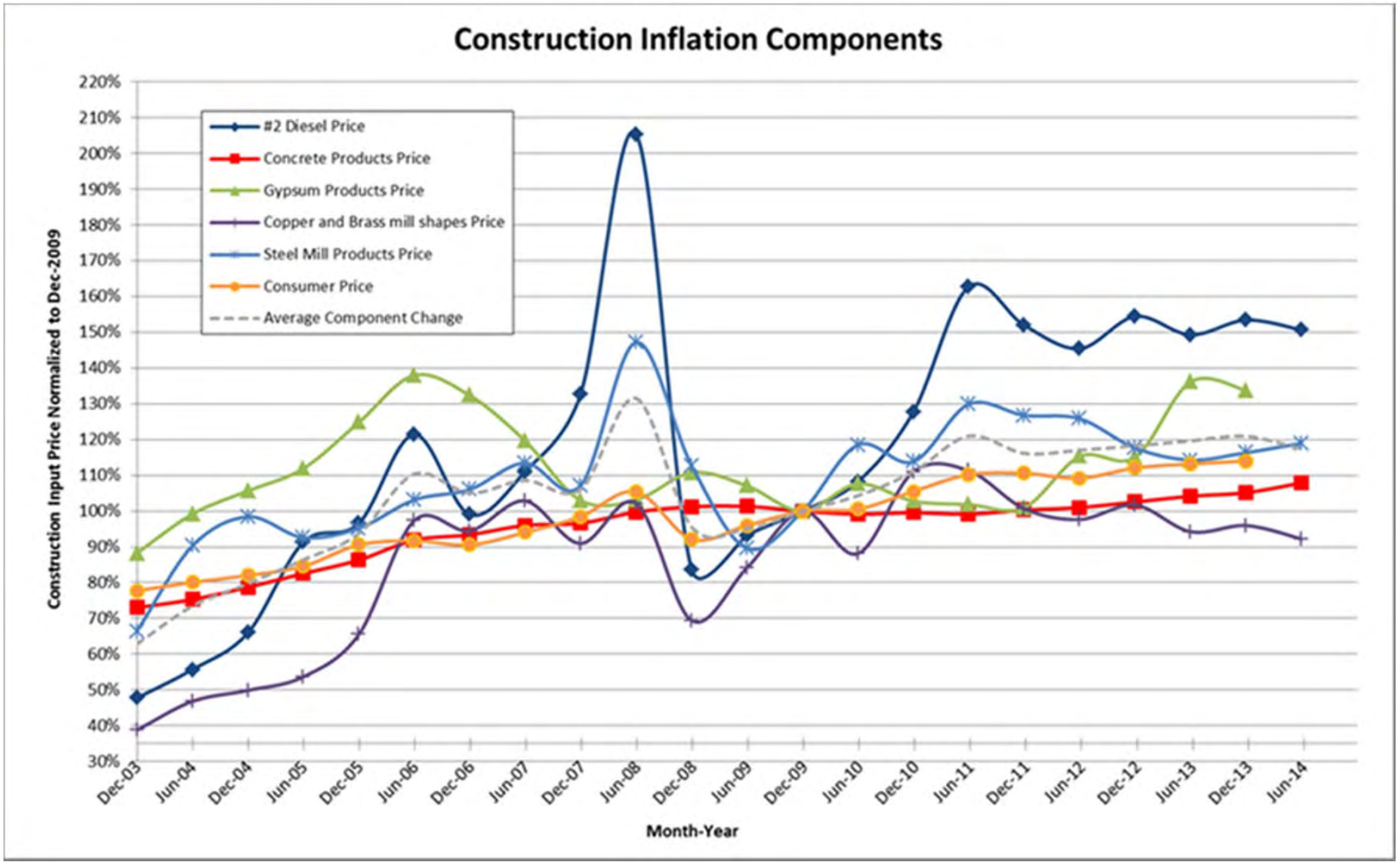
Inflation Study - Continued



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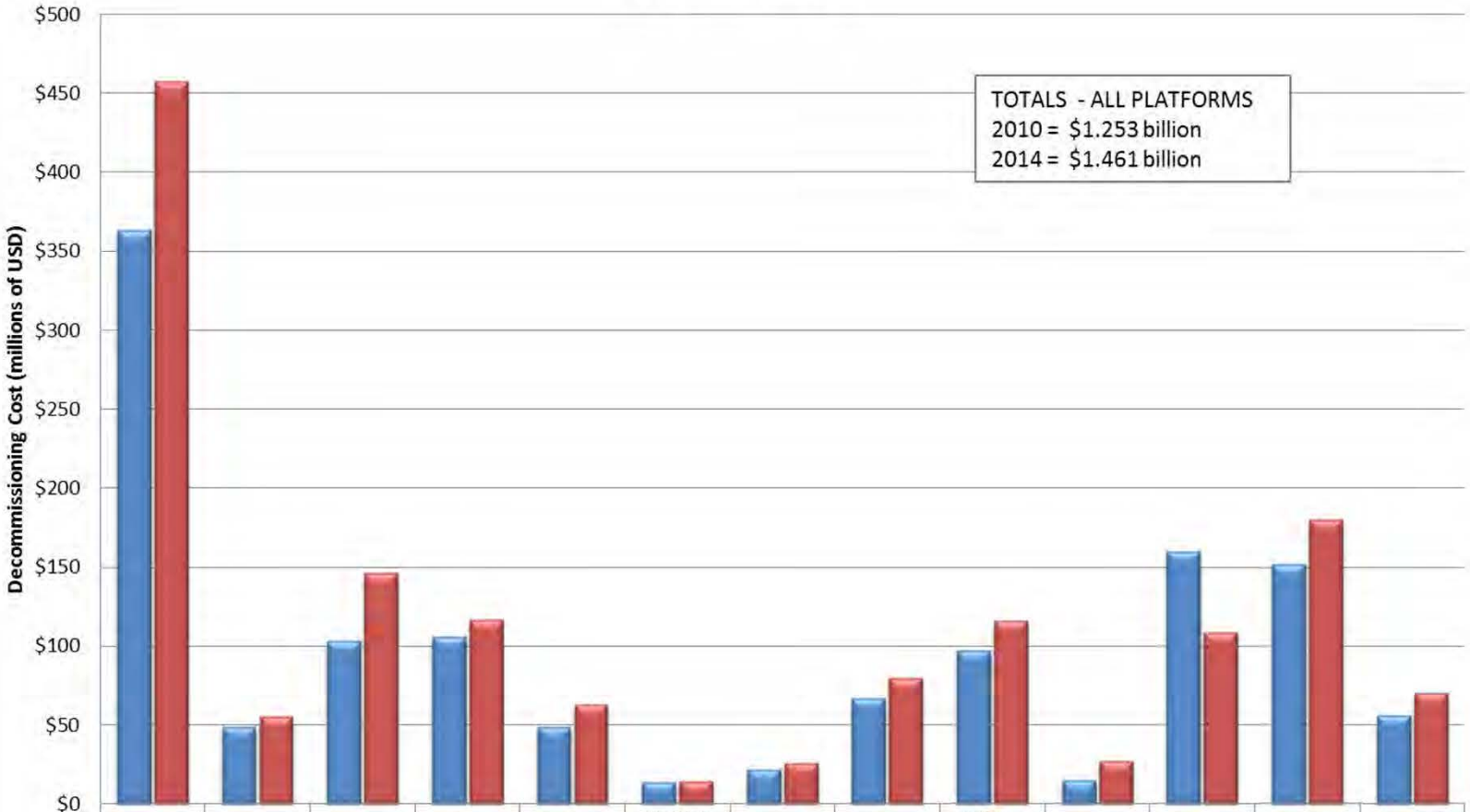
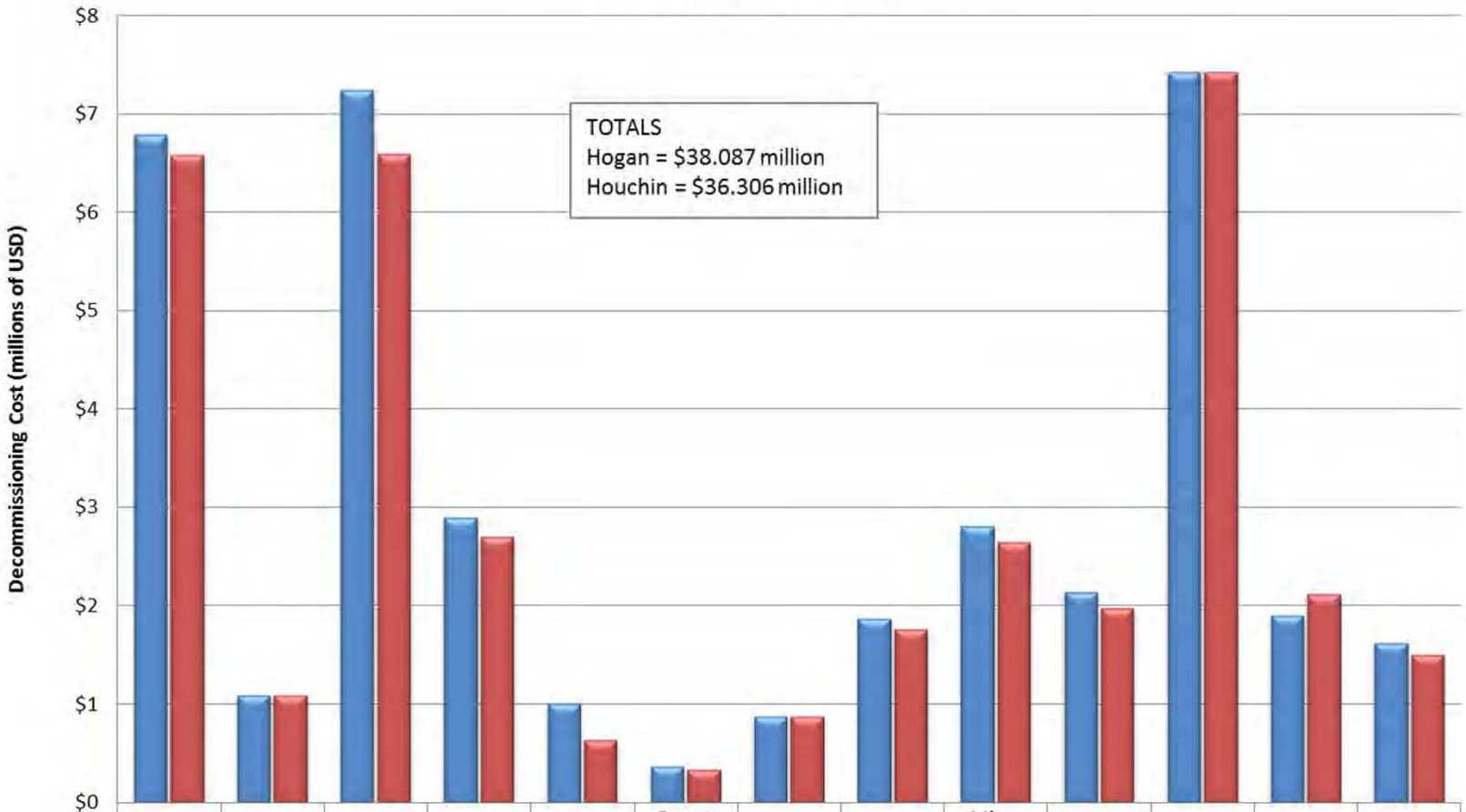
Q&A - Discussion

POCSR Total Decommissioning Costs by Task and Year
All Platforms



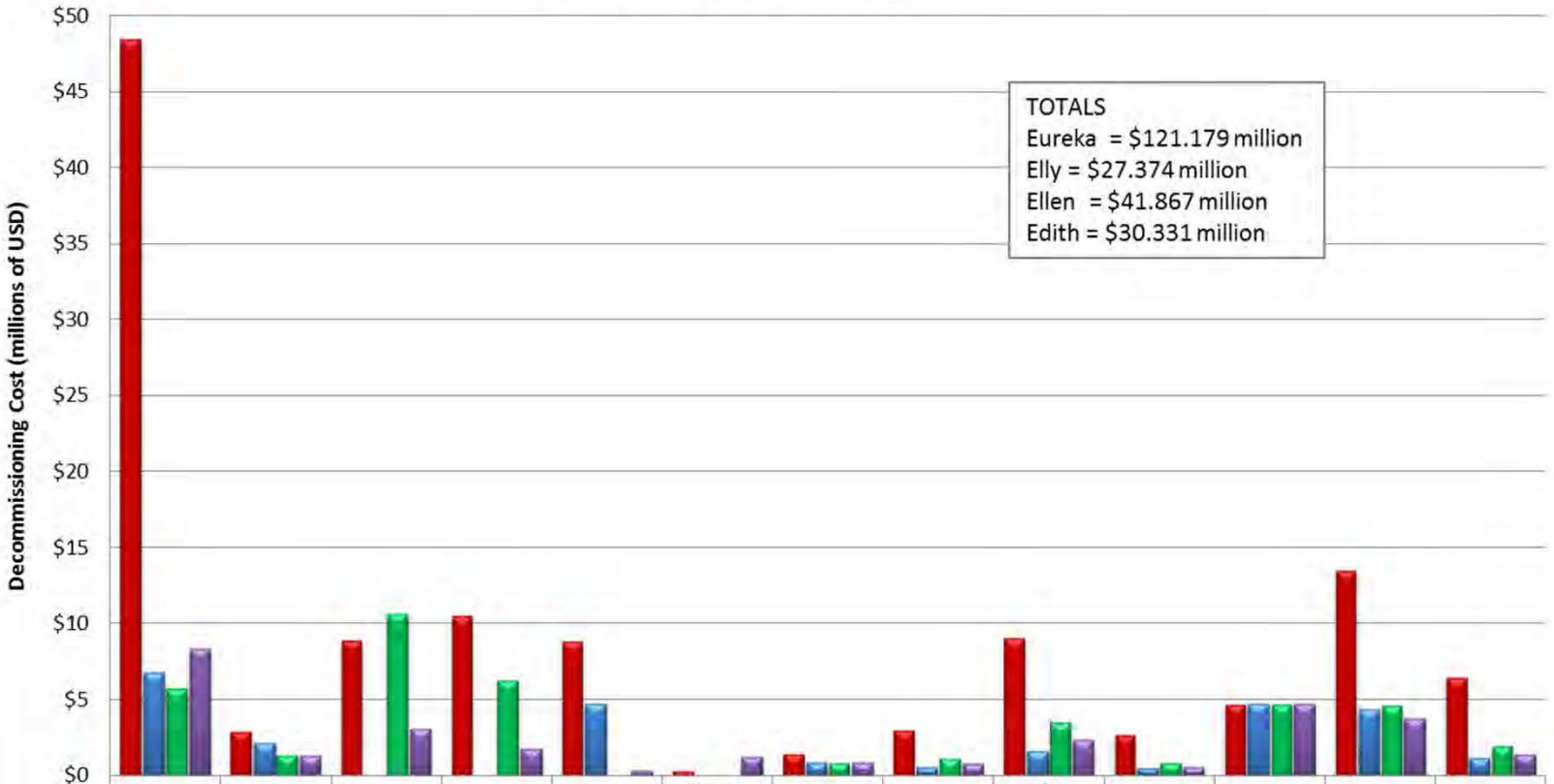
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
2010	$363.276	$48.934	$103.092	$105.995	$49.027	$13.463	$21.464	$66.961	$97.471	$15.330	$159.840	$151.723	$56.420
2014	$457.816	$55.393	$146.188	$116.471	$62.909	$14.445	$25.624	$79.620	$115.791	$27.300	$108.900	$180.175	$70.308

Project I: 2014 Decommissioning Costs
Hogan, Houchin



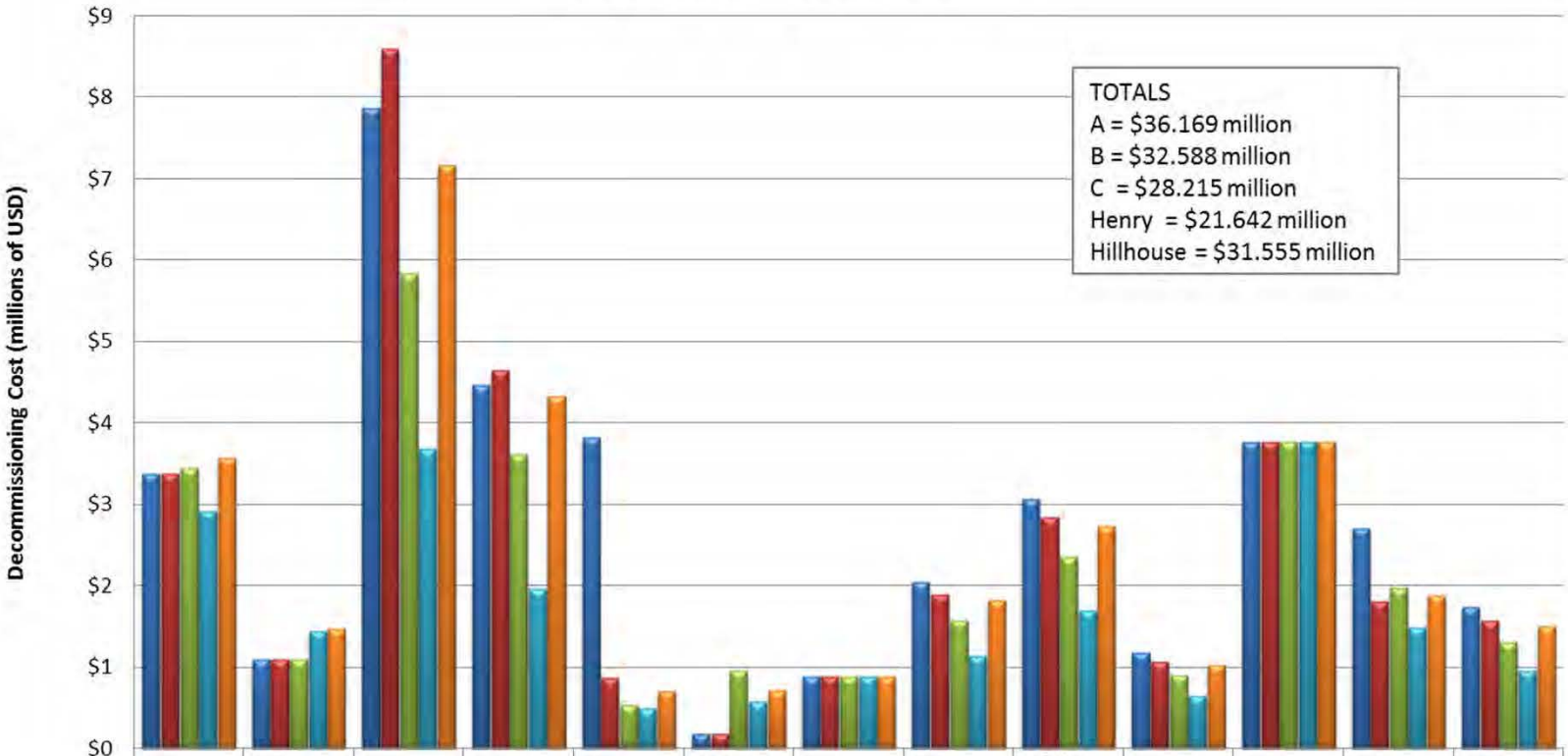
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
Hogan	$6.786	$1.097	$7.247	$2.906	$1.015	$0.370	$0.884	$1.875	$2.813	$2.140	$7.425	$1.903	$1.624
Houchin	$6.585	$1.097	$6.596	$2.707	$0.639	$0.343	$0.884	$1.766	$2.649	$1.987	$7.425	$2.120	$1.508

Project II: 2014 Decommissioning Costs
Eureka, Elly, Ellen, Edith



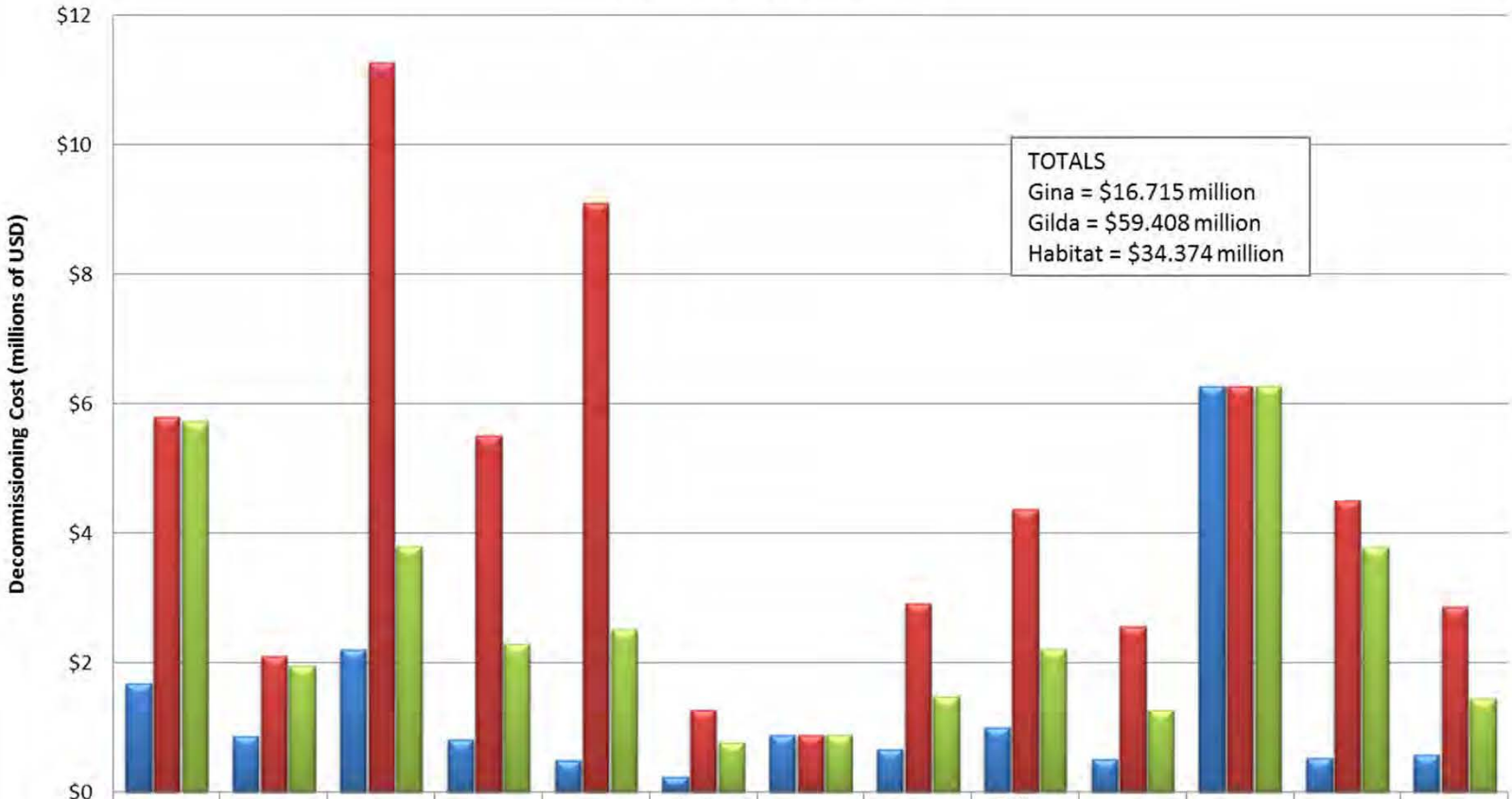
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
Eureka	$48.421	$2.969	$8.907	$10.539	$8.877	$0.374	$1.472	$3.035	$9.105	$2.713	$4.703	$13.540	$6.525
Elly	$6.774	$2.152	$0.000	$0.000	$4.713	$0.000	$0.884	$0.539	$1.617	$0.482	$4.703	$4.348	$1.162
Ellen	$5.773	$1.390	$10.650	$6.280	$0.000	$0.000	$0.884	$1.184	$3.553	$0.831	$4.703	$4.620	$1.998
Edith	$8.303	$1.320	$3.067	$1.758	$0.332	$1.231	$0.884	$0.776	$2.327	$0.565	$4.703	$3.716	$1.352

Project III: 2014 Decommissioning Costs
A, B, C, Henry, Hillhouse



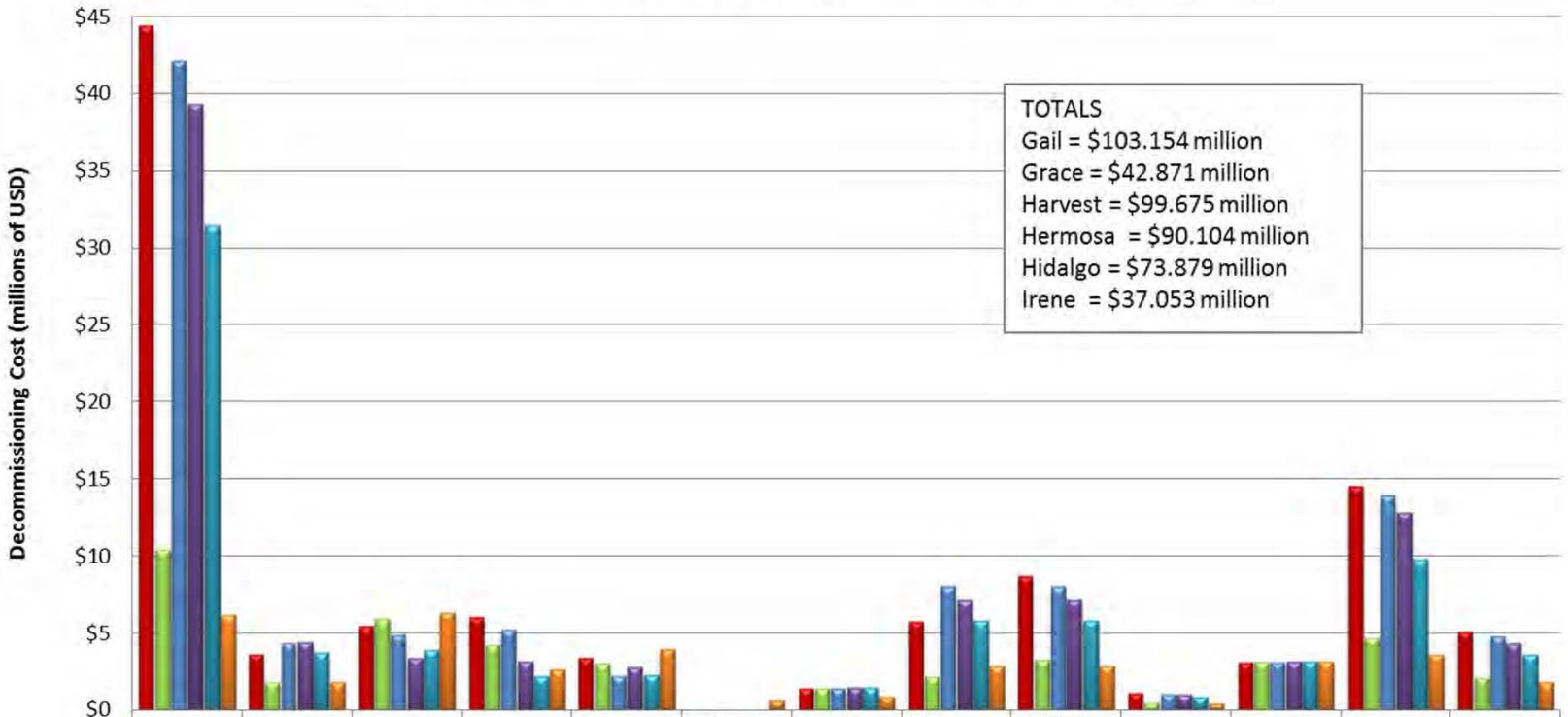
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
A	$3.377	$1.093	$7.861	$4.461	$3.819	$0.181	$0.884	$2.044	$3.066	$1.181	$3.762	$2.706	$1.734
B	$3.377	$1.093	$8.591	$4.647	$0.864	$0.181	$0.884	$1.898	$2.847	$1.070	$3.762	$1.803	$1.571
C	$3.447	$1.093	$5.839	$3.609	$0.528	$0.954	$0.884	$1.571	$2.356	$0.892	$3.762	$1.972	$1.308
Henry	$2.913	$1.445	$3.678	$1.965	$0.496	$0.576	$0.884	$1.133	$1.699	$0.651	$3.762	$1.484	$0.957
Hillhouse	$3.566	$1.474	$7.160	$4.331	$0.705	$0.712	$0.884	$1.818	$2.727	$1.026	$3.762	$1.884	$1.507

Project IV: 2014 Decommissioning Costs
Gina, Gilda, Habitat



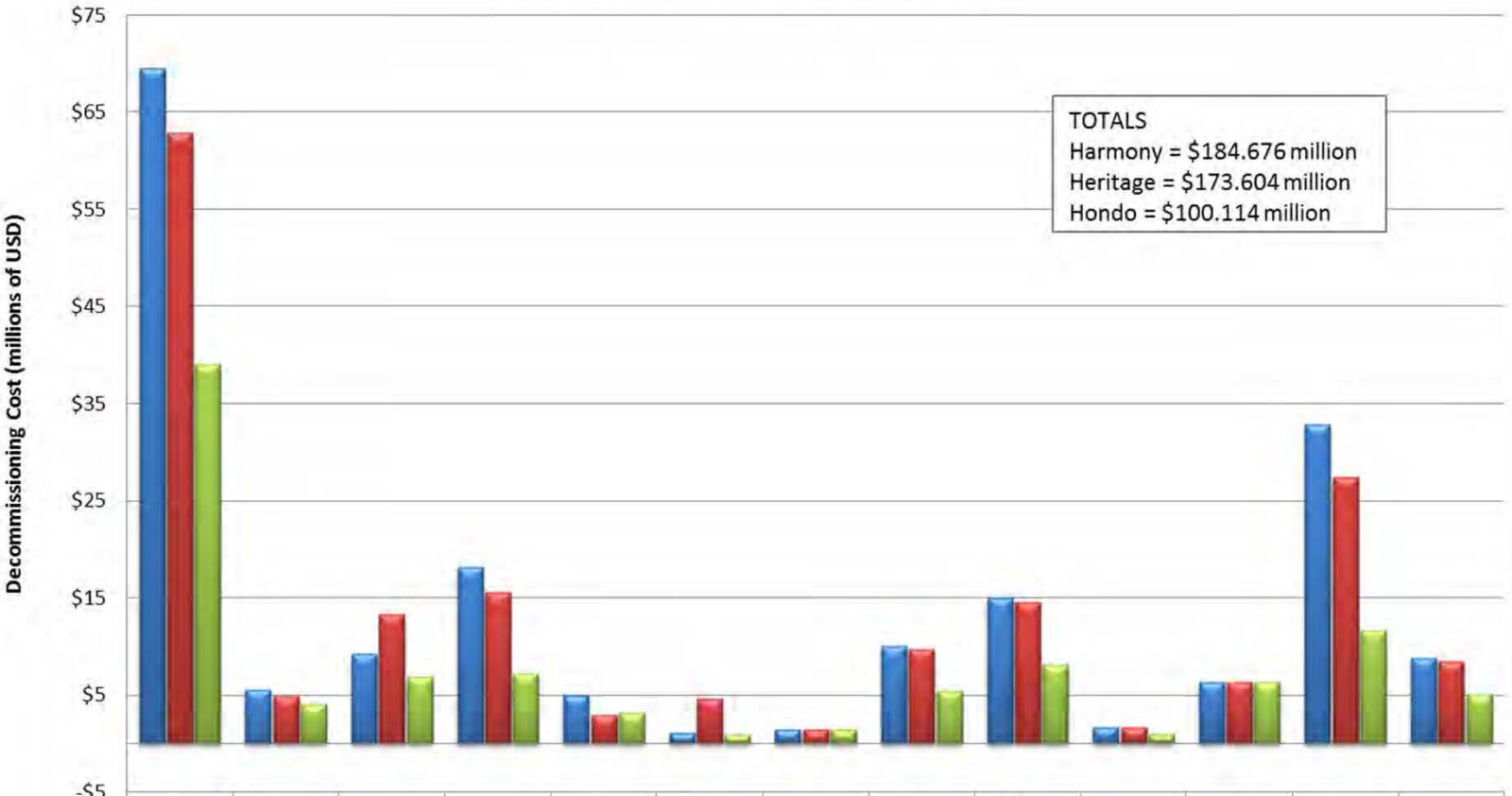
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
Gina	$1.675	$0.864	$2.196	$0.819	$0.485	$0.244	$0.884	$0.665	$0.998	$0.514	$6.270	$0.528	$0.573
Gilda	$5.794	$2.096	$11.271	$5.505	$9.095	$1.268	$0.884	$2.912	$4.369	$2.566	$6.270	$4.507	$2.873
Habitat	$5.734	$1.950	$3.791	$2.297	$2.506	$0.769	$0.884	$1.473	$2.209	$1.281	$6.270	$3.775	$1.434

Project V: 2014 Decommissioning Costs
Gail, Grace, Harvest, Hermosa, Hidalgo, Irene



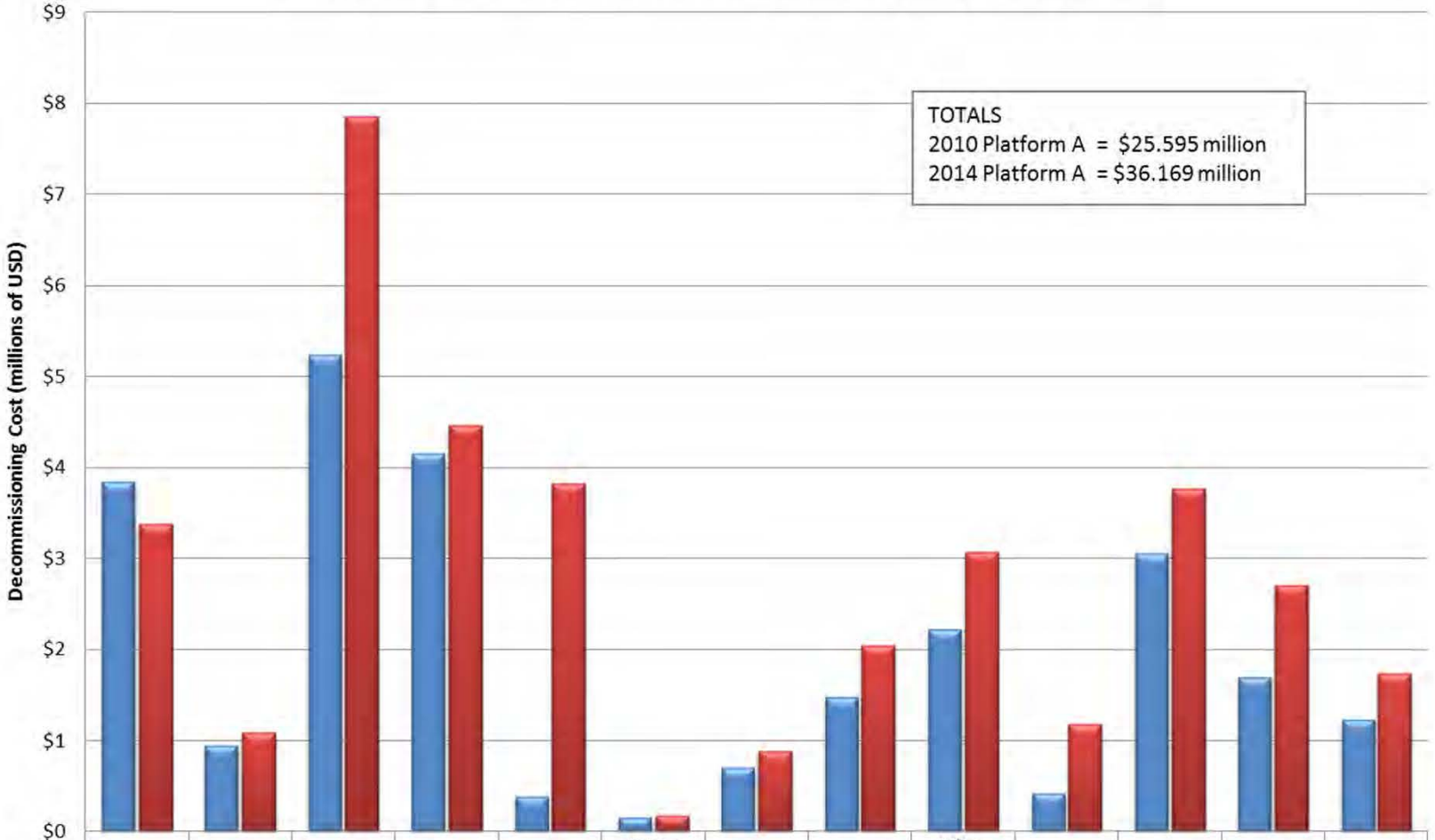
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
Gail	$44.377	$3.670	$5.487	$6.124	$3.441	$0.000	$1.472	$5.813	$8.720	$1.191	$3.135	$14.559	$5.166
Grace	$10.363	$1.827	$5.935	$4.239	$3.090	$0.000	$1.472	$2.190	$3.284	$0.494	$3.135	$4.688	$2.154
Harvest	$42.101	$4.373	$4.933	$5.319	$2.241	$0.000	$1.472	$8.091	$8.091	$1.115	$3.135	$13.968	$4.835
Hermosa	$39.297	$4.373	$3.379	$3.177	$2.763	$0.000	$1.472	$7.157	$7.157	$1.004	$3.135	$12.832	$4.357
Hidalgo	$31.410	$3.708	$3.917	$2.189	$2.286	$0.000	$1.472	$5.790	$5.790	$0.828	$3.135	$9.757	$3.599
Irene	$6.177	$1.827	$6.289	$2.621	$3.951	$0.656	$0.884	$2.844	$2.844	$0.414	$3.135	$3.617	$1.792

Project VI: 2014 Decommissioning Costs
Harmony, Heritage, Hondo



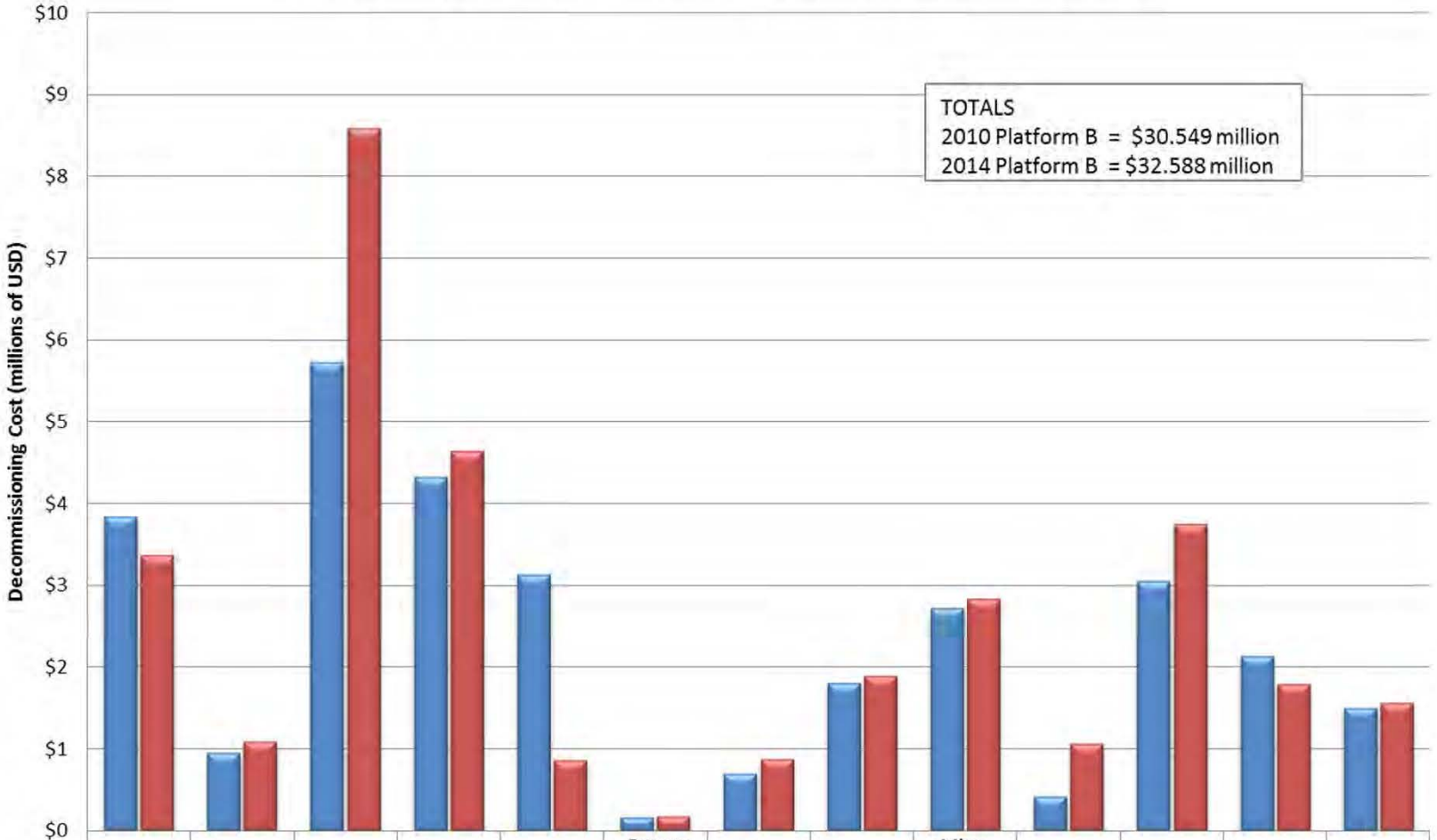
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
Harmony	$69.600	$5.517	$9.234	$18.183	$4.994	$1.096	$1.472	$9.990	$14.986	$1.721	$6.270	$32.805	$8.808
Heritage	$62.903	$4.879	$13.312	$15.542	$2.910	$4.570	$1.472	$9.677	$14.516	$1.651	$6.270	$27.453	$8.447
Hondo	$39.063	$4.086	$6.846	$7.253	$3.158	$0.922	$1.472	$5.379	$8.069	$0.984	$6.270	$11.589	$5.024

Platform A - Decommissioning Costs by Task and Year



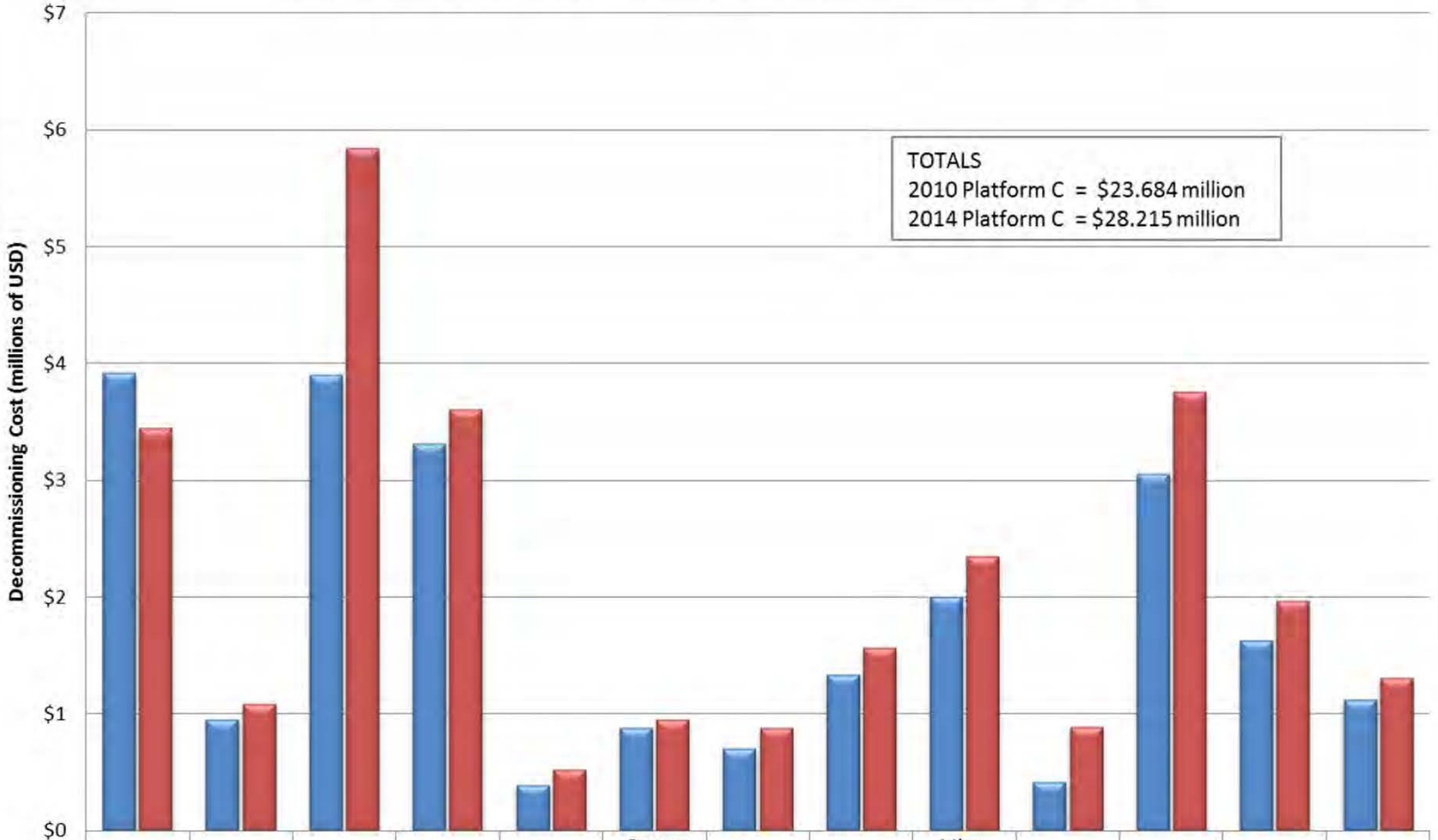
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
2010	$3.848	$0.958	$5.239	$4.157	$0.398	$0.169	$0.709	$1.480	$2.220	$0.426	$3.060	$1.694	$1.238
2014	$3.377	$1.093	$7.861	$4.461	$3.819	$0.181	$0.884	$2.044	$3.066	$1.181	$3.762	$2.706	$1.734

Platform B - Decommissioning Costs by Task and Year



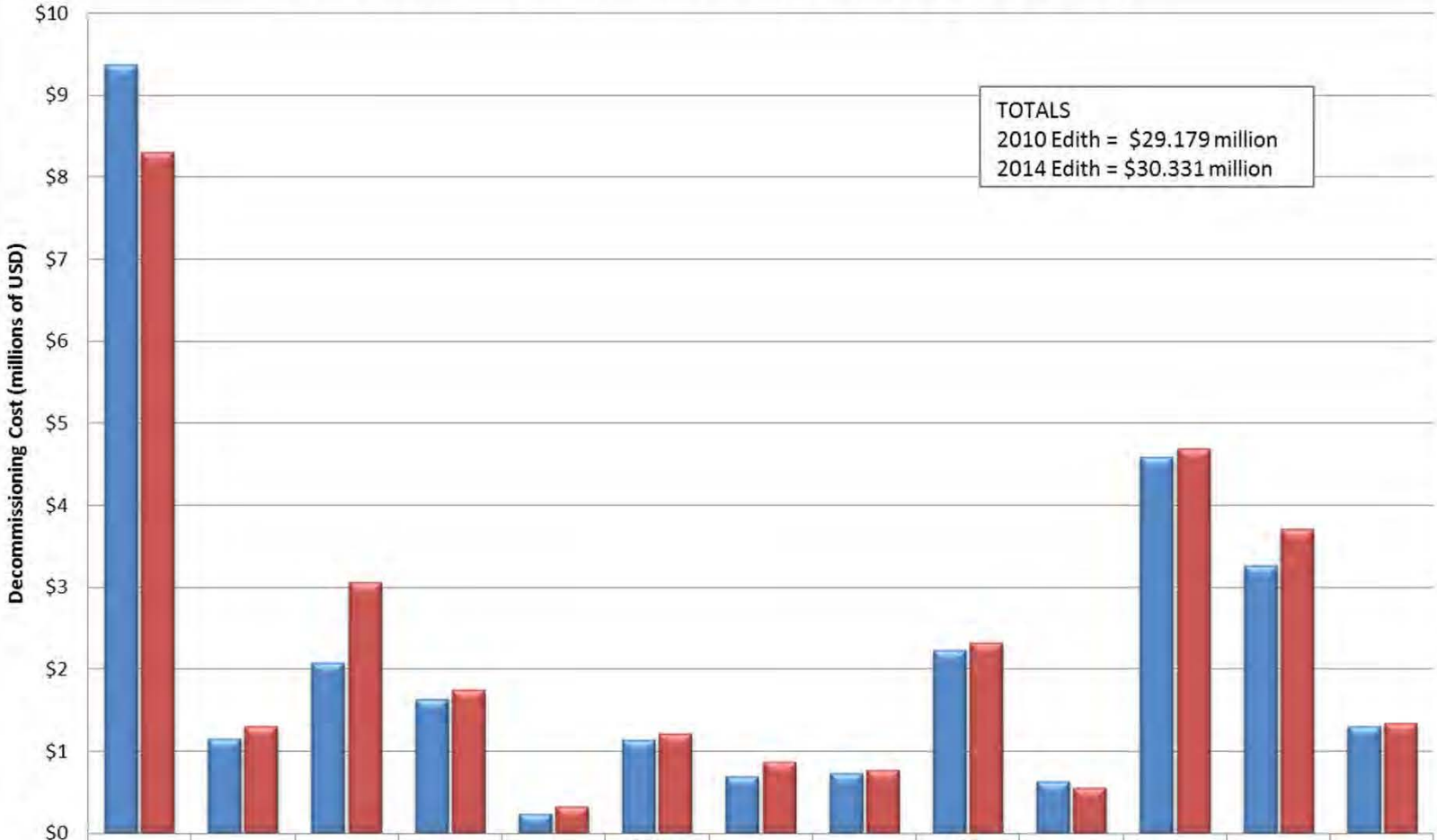
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
2010	$3.848	$0.958	$5.725	$4.330	$3.139	$0.169	$0.709	$1.816	$2.724	$0.426	$3.060	$2.138	$1.510
2014	$3.377	$1.093	$8.591	$4.647	$0.864	$0.181	$0.884	$1.898	$2.847	$1.070	$3.762	$1.803	$1.571

Platform C - Decommissioning Costs by Task and Year



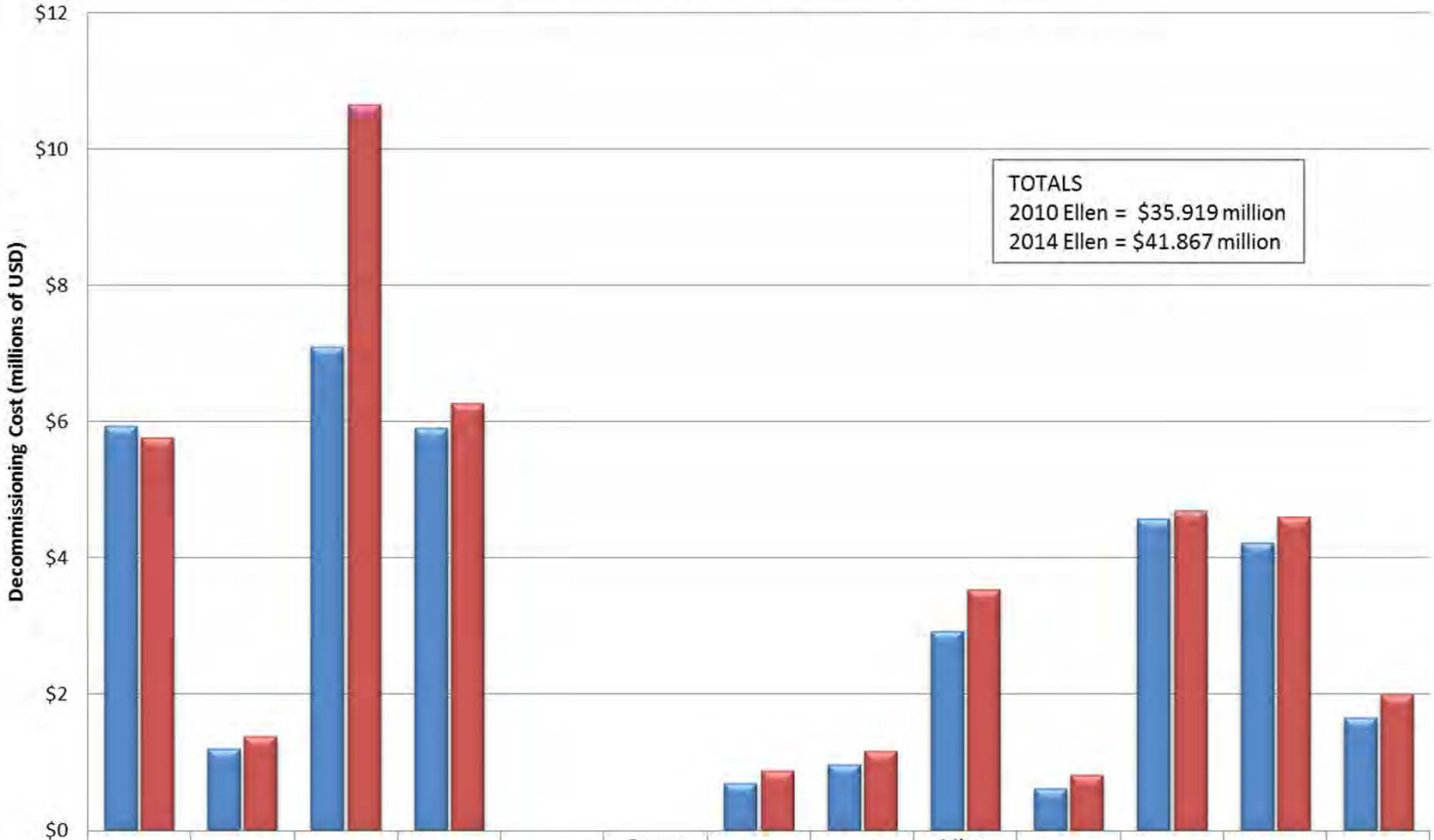
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
2010	$3.917	$0.958	$3.900	$3.317	$0.394	$0.889	$0.709	$1.340	$2.011	$0.426	$3.060	$1.637	$1.127
2014	$3.447	$1.093	$5.839	$3.609	$0.528	$0.954	$0.884	$1.571	$2.356	$0.892	$3.762	$1.972	$1.308

Platform Edith - Decommissioning Costs by Task and Year



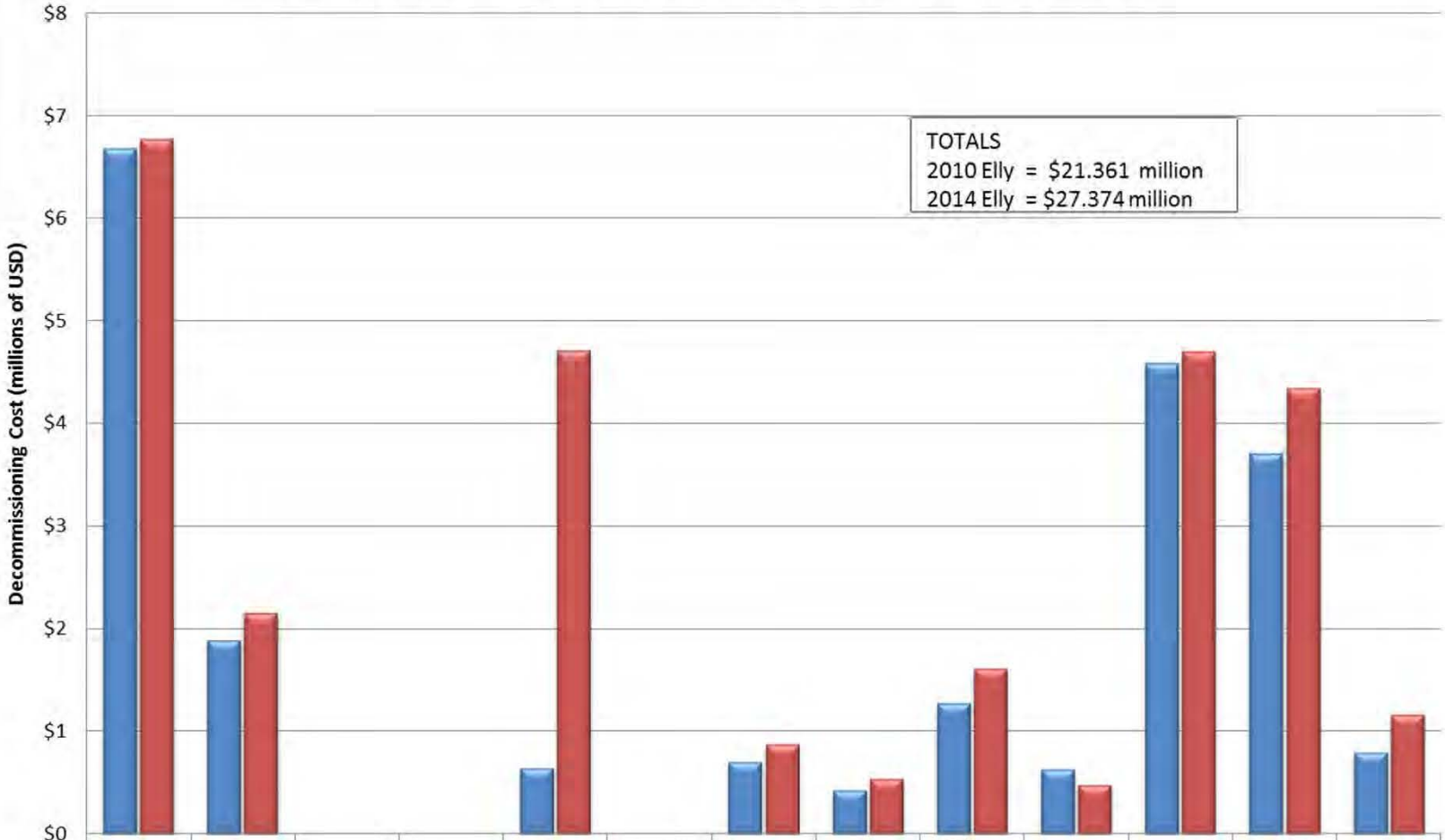
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
2010	$9.372	$1.164	$2.087	$1.650	$0.247	$1.146	$0.709	$0.748	$2.244	$0.639	$4.590	$3.272	$1.310
2014	$8.303	$1.320	$3.067	$1.758	$0.332	$1.231	$0.884	$0.776	$2.327	$0.565	$4.703	$3.716	$1.352

Platform Ellen - Decommissioning Costs by Task and Year



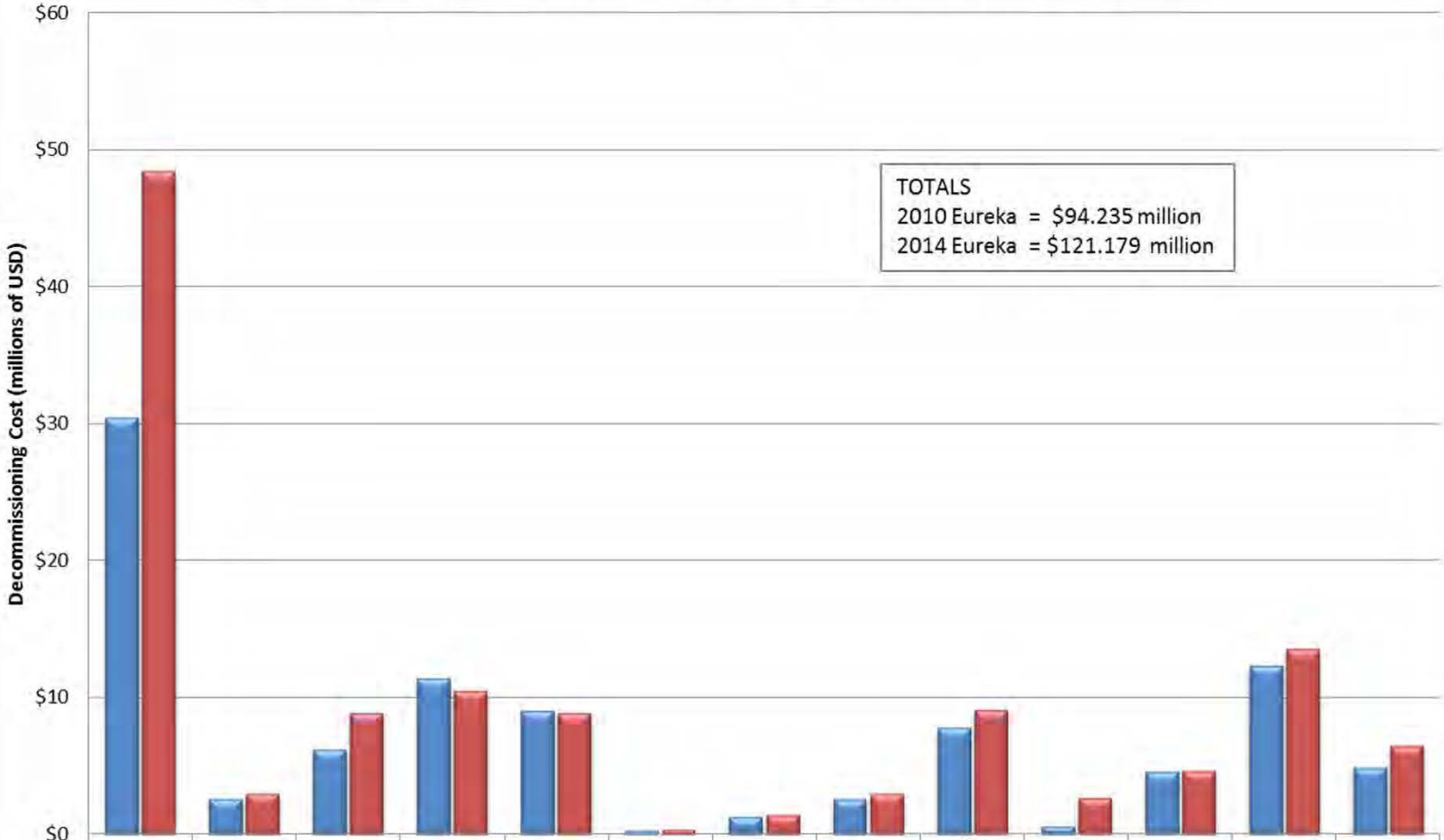
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
2010	$5.938	$1.216	$7.095	$5.911	$0.000	$0.000	$0.709	$0.980	$2.941	$0.639	$4.590	$4.231	$1.670
2014	$5.773	$1.390	$10.650	$6.280	$0.000	$0.000	$0.884	$1.184	$3.553	$0.831	$4.703	$4.620	$1.998

Platform Elly - Decommissioning Costs by Task and Year



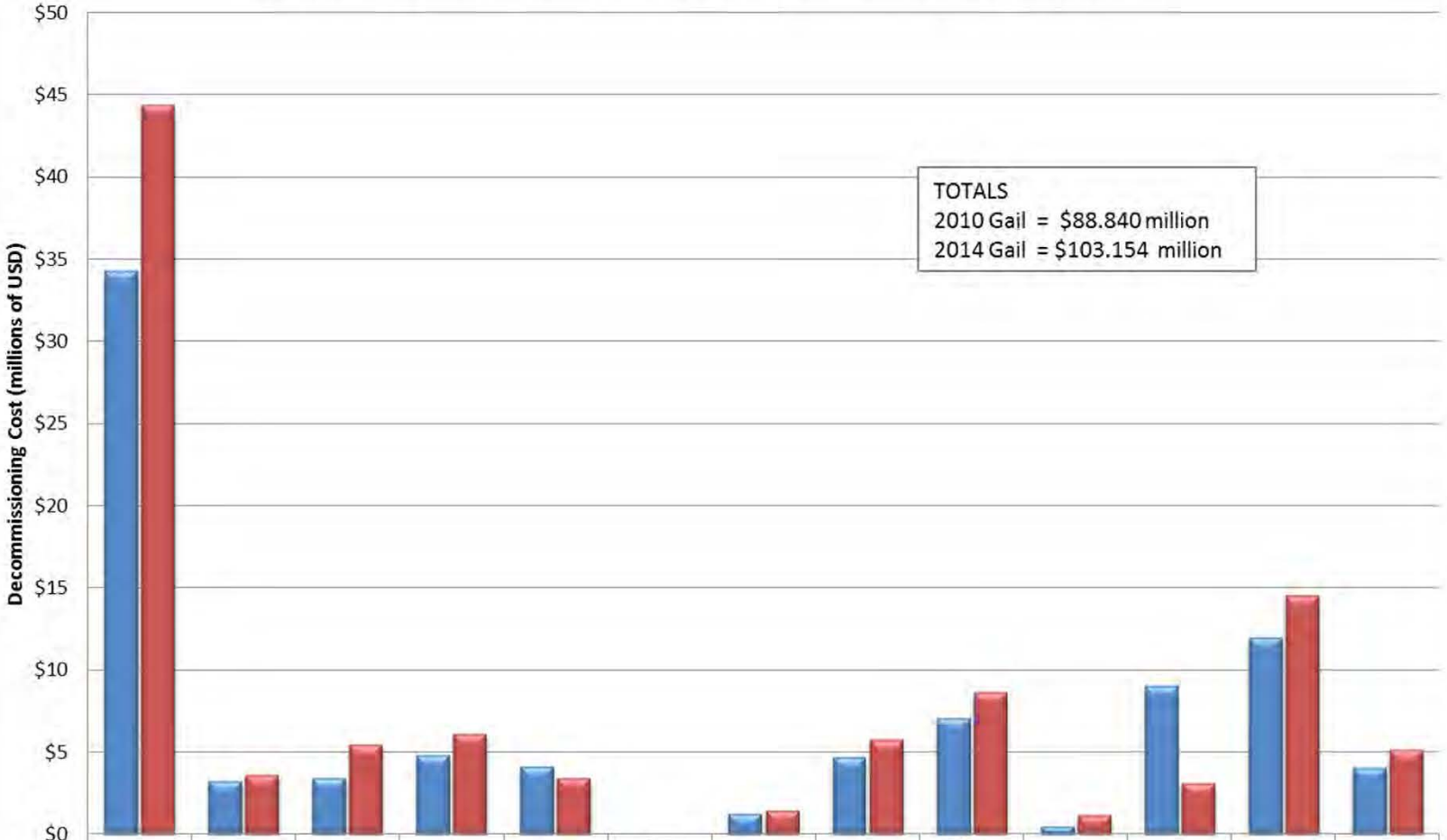
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
2010	$6.682	$1.892	$0.000	$0.000	$0.645	$0.000	$0.709	$0.426	$1.279	$0.639	$4.590	$3.705	$0.794
2014	$6.774	$2.152	$0.000	$0.000	$4.713	$0.000	$0.884	$0.539	$1.617	$0.482	$4.703	$4.348	$1.162

Platform Eureka - Decommissioning Costs by Task and Year



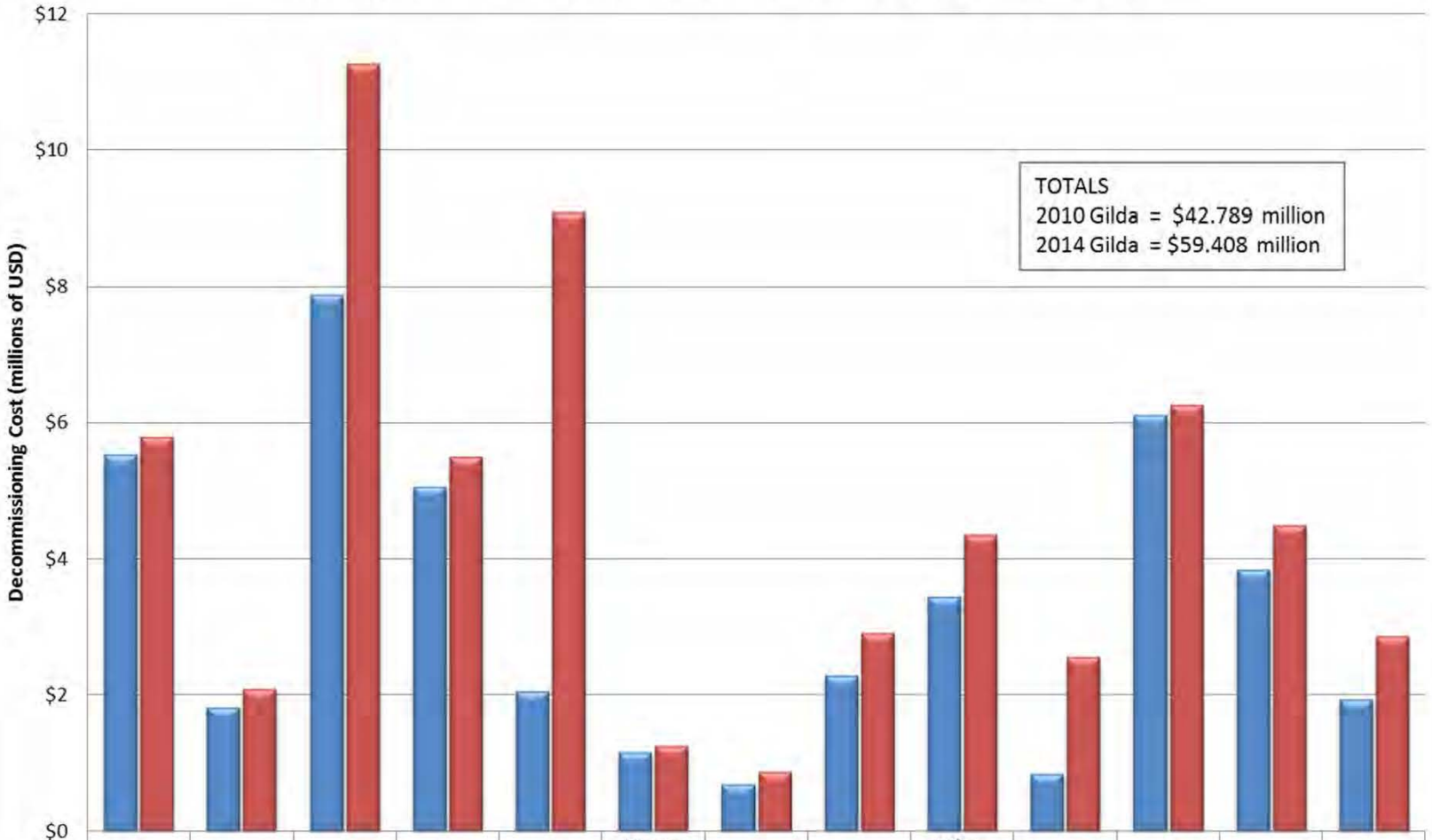
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
2010	$30.426	$2.628	$6.209	$11.450	$9.044	$0.349	$1.282	$2.599	$7.797	$0.639	$4.590	$12.310	$4.911
2014	$48.421	$2.969	$8.907	$10.539	$8.877	$0.374	$1.472	$3.035	$9.105	$2.713	$4.703	$13.540	$6.525

Platform Gail - Decommissioning Costs by Task and Year



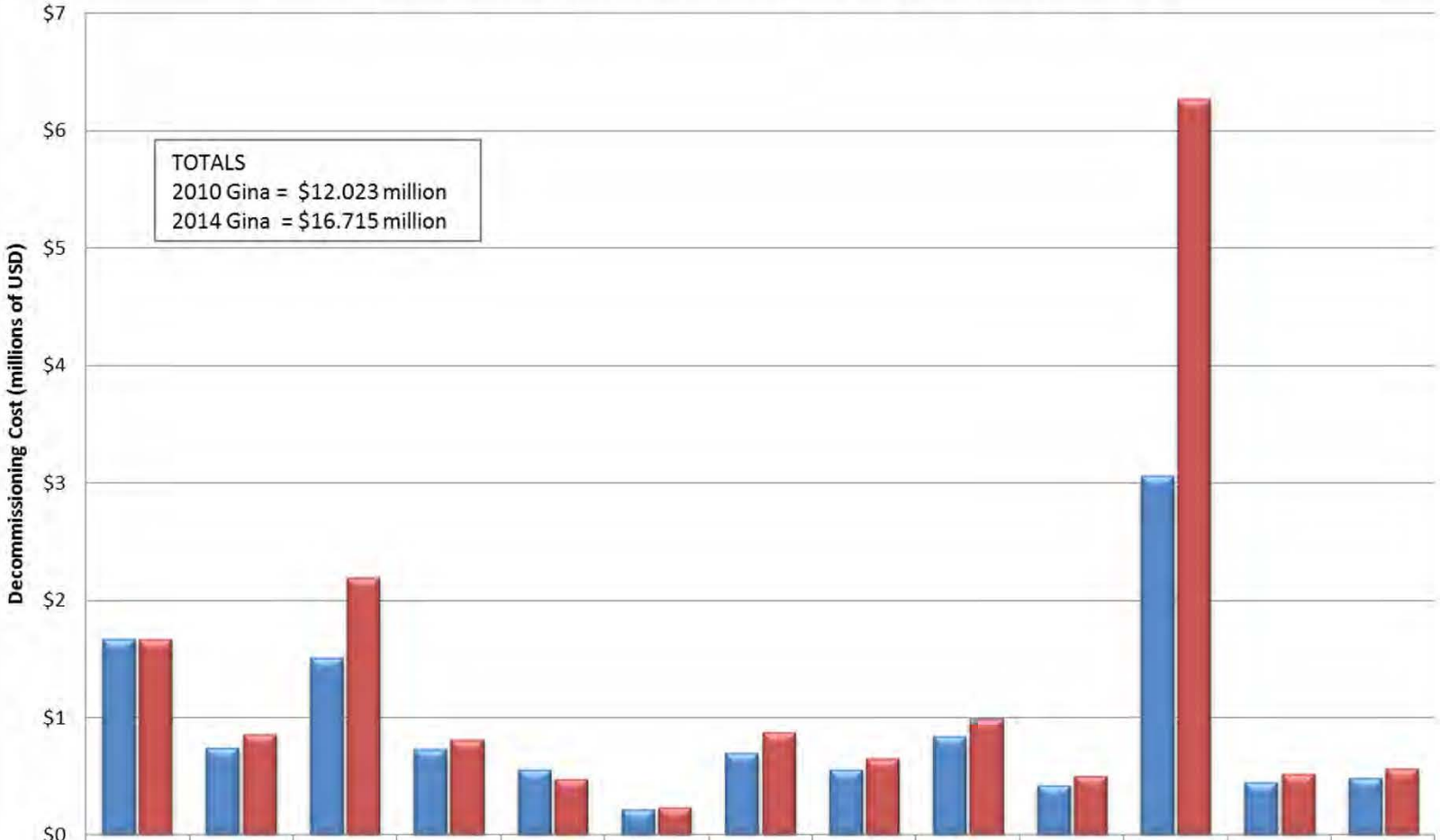
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
2010	$34.281	$3.264	$3.437	$4.863	$4.175	$0.000	$1.282	$4.739	$7.109	$0.511	$9.072	$12.002	$4.104
2014	$44.377	$3.670	$5.487	$6.124	$3.441	$0.000	$1.472	$5.813	$8.720	$1.191	$3.135	$14.559	$5.166

Platform Gilda - Decommissioning Costs by Task and Year



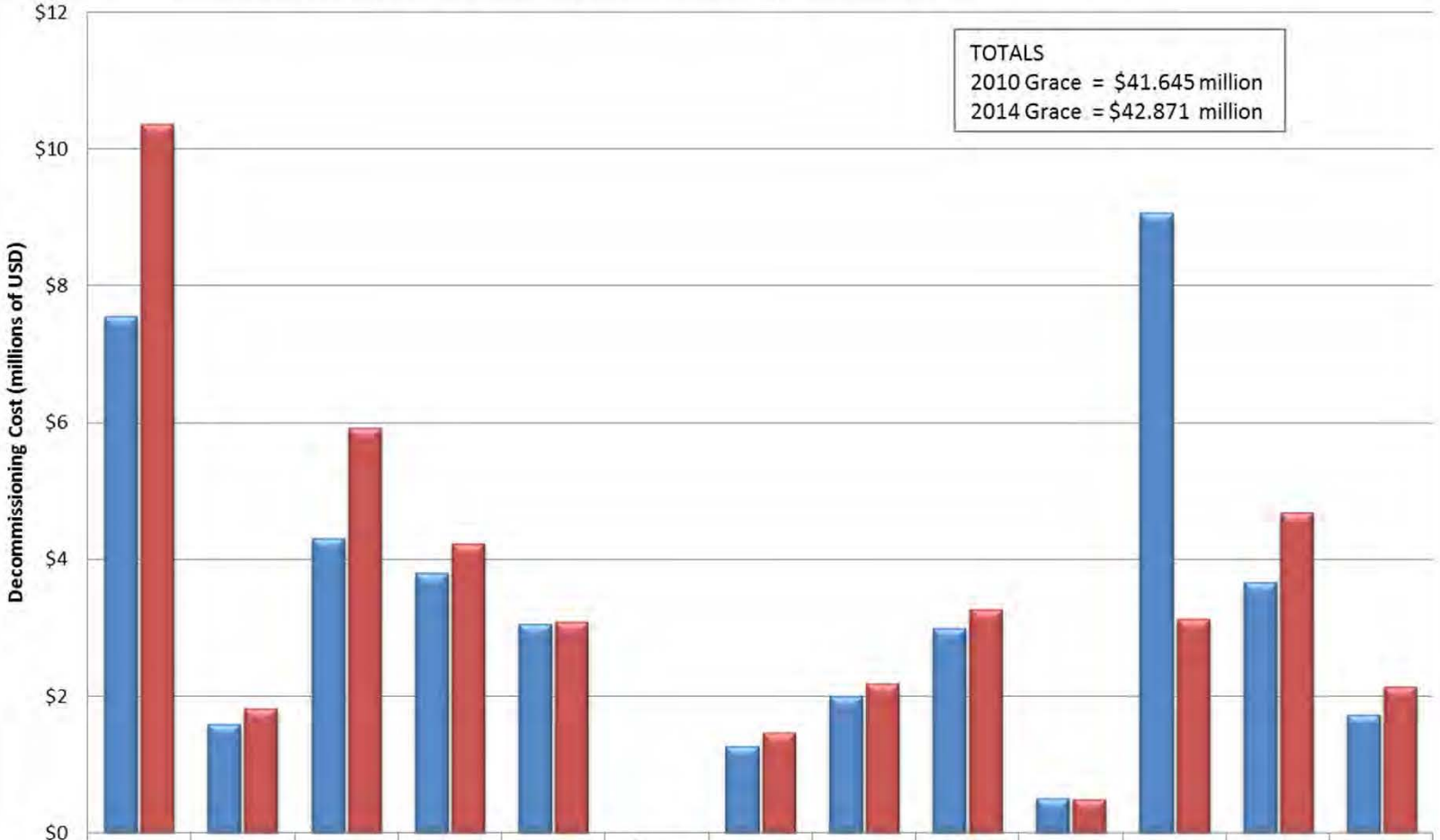
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
2010	$5.545	$1.840	$7.880	$5.063	$2.067	$1.181	$0.709	$2.295	$3.443	$0.852	$6.120	$3.851	$1.943
2014	$5.794	$2.096	$11.271	$5.505	$9.095	$1.268	$0.884	$2.912	$4.369	$2.566	$6.270	$4.507	$2.873

Platform Gina - Decommissioning Costs by Task and Year



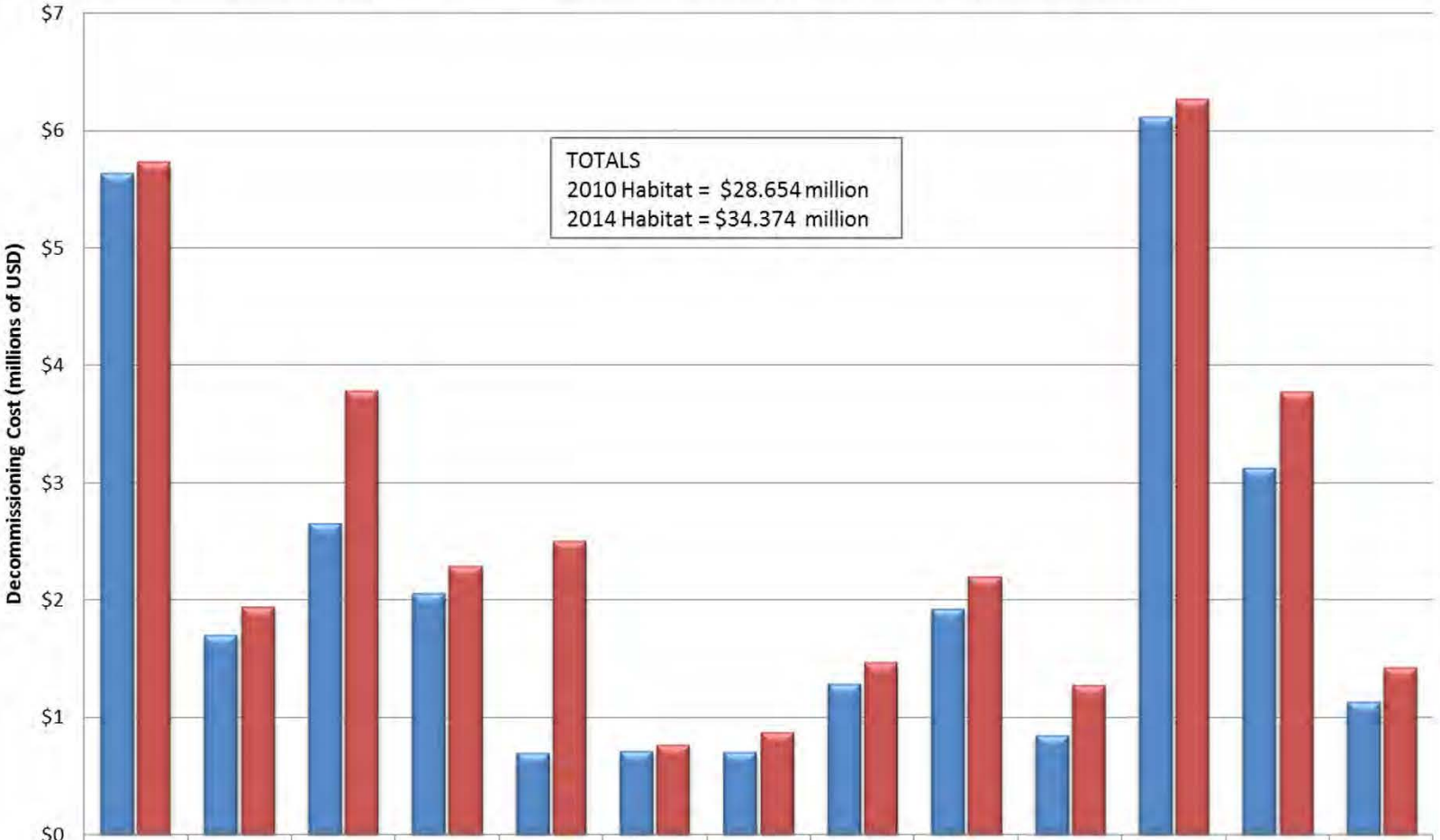
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
2010	$1.675	$0.746	$1.510	$0.739	$0.565	$0.228	$0.709	$0.567	$0.851	$0.426	$3.060	$0.453	$0.494
2014	$1.675	$0.864	$2.196	$0.819	$0.485	$0.244	$0.884	$0.665	$0.998	$0.514	$6.270	$0.528	$0.573

Platform Grace - Decommissioning Costs by Task and Year



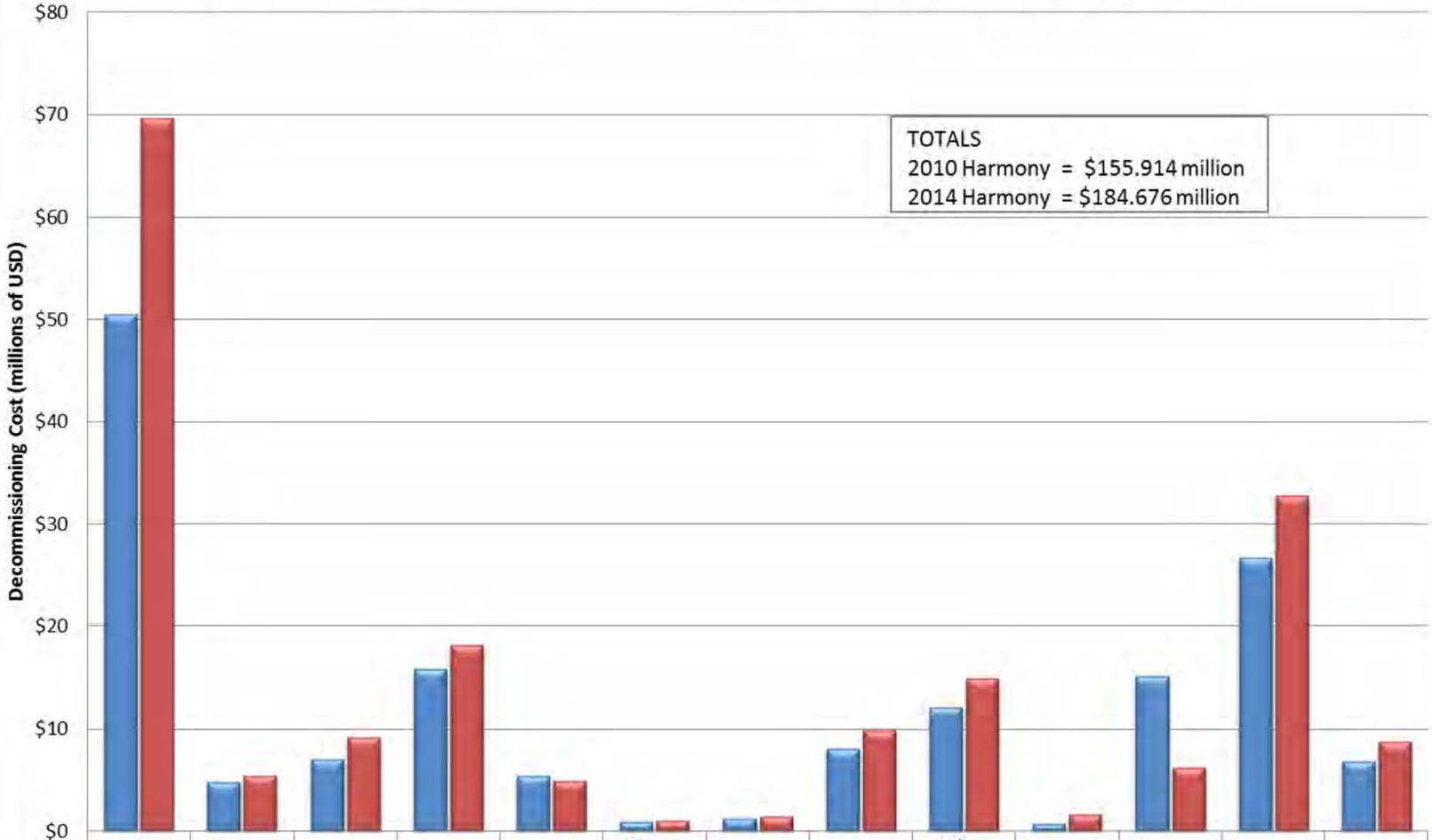
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
2010	$7.561	$1.606	$4.314	$3.812	$3.071	$0.000	$1.282	$2.005	$3.007	$0.511	$9.072	$3.672	$1.732
2014	$10.363	$1.827	$5.935	$4.239	$3.090	$0.000	$1.472	$2.190	$3.284	$0.494	$3.135	$4.688	$2.154

Platform Habitat - Decommissioning Costs by Task and Year



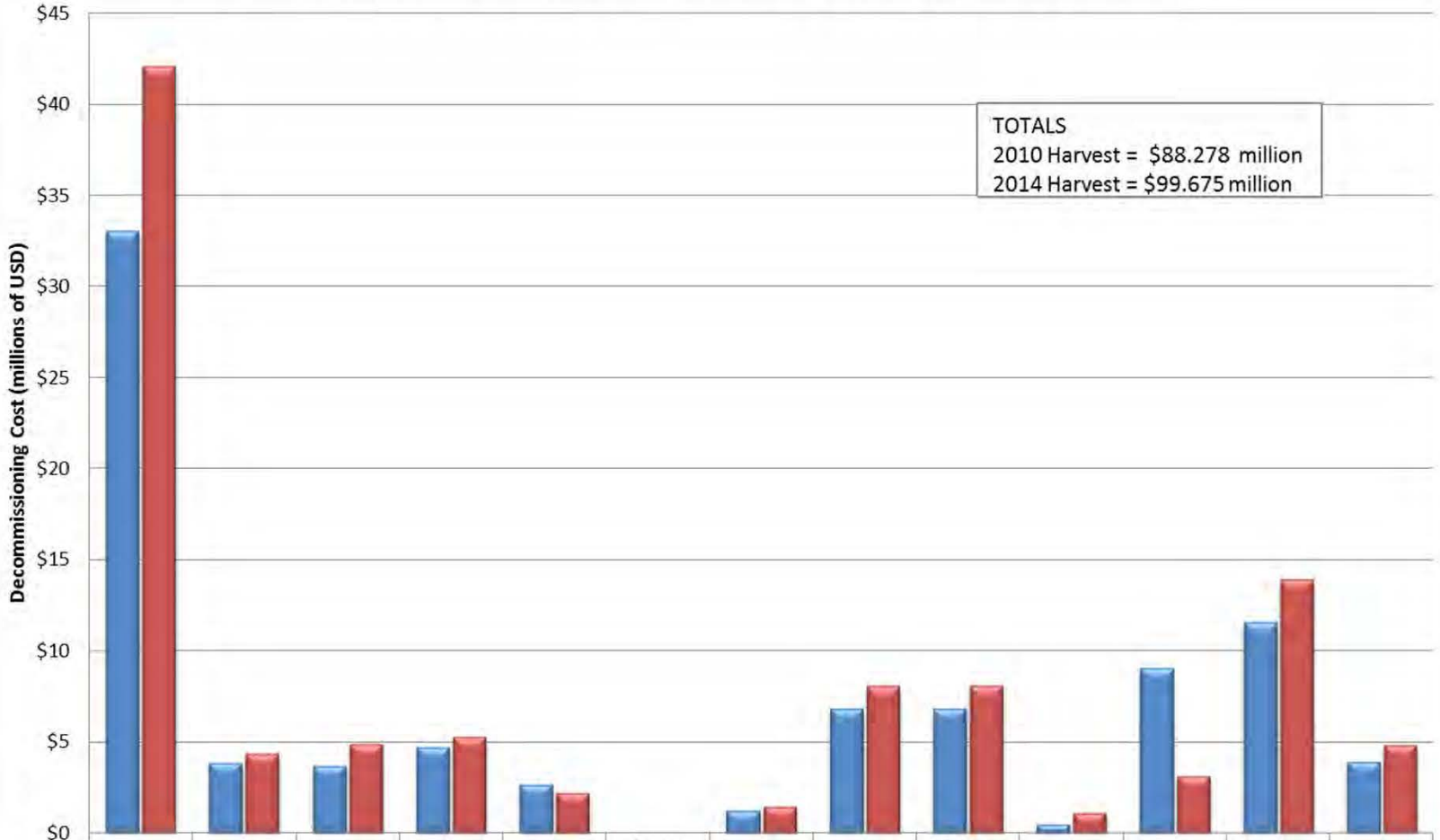
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
2010	$5.641	$1.710	$2.657	$2.066	$0.698	$0.717	$0.709	$1.288	$1.932	$0.852	$6.120	$3.131	$1.136
2014	$5.734	$1.950	$3.791	$2.297	$2.506	$0.769	$0.884	$1.473	$2.209	$1.281	$6.270	$3.775	$1.434

Platform Harmony - Decommissioning Costs by Task and Year



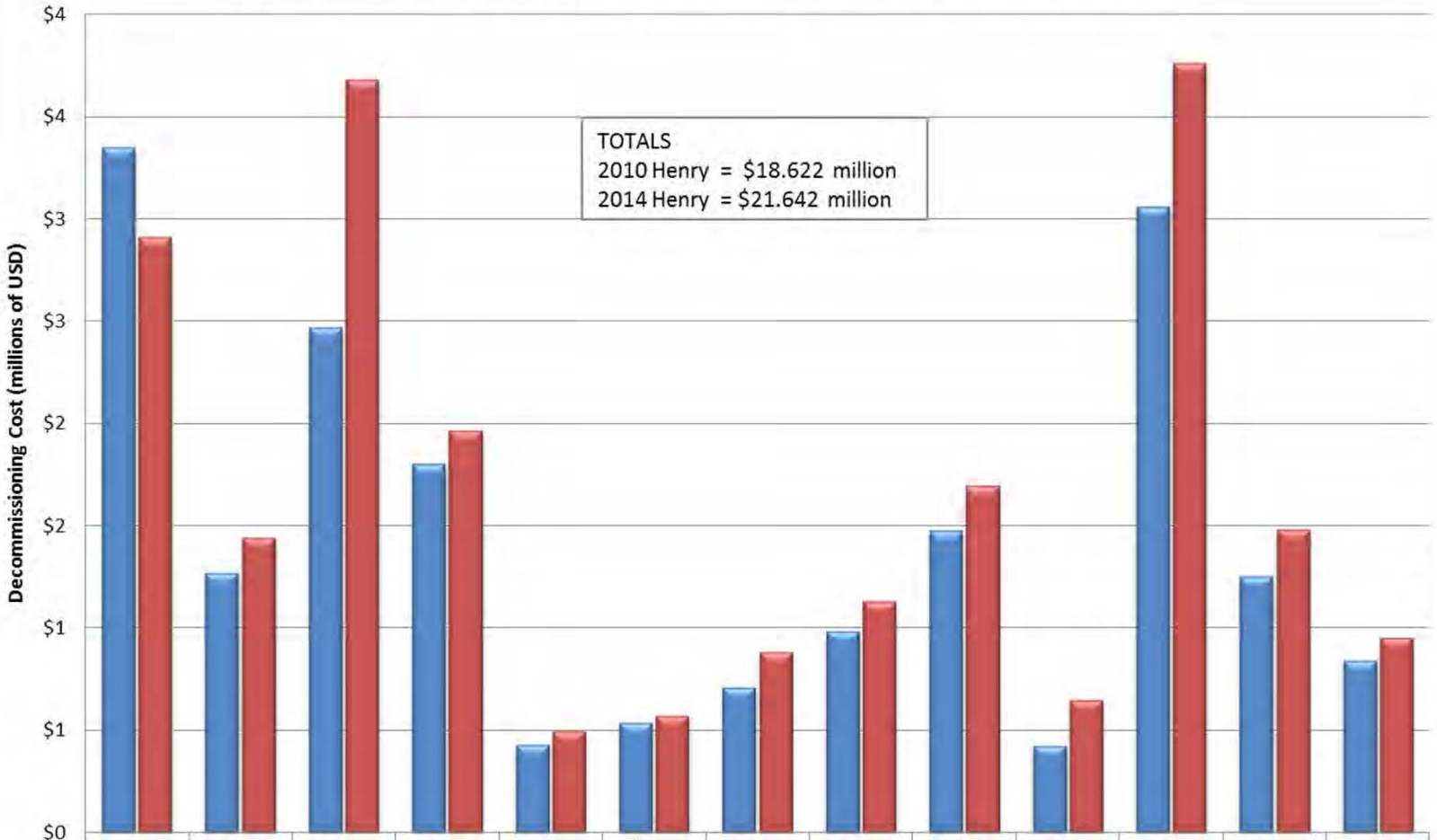
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
2010	$50.482	$4.866	$7.069	$15.846	$5.515	$1.021	$1.282	$8.096	$12.144	$0.852	$15.120	$26.735	$6.886
2014	$69.600	$5.517	$9.234	$18.183	$4.994	$1.096	$1.472	$9.990	$14.986	$1.721	$6.270	$32.805	$8.808

Platform Harvest - Decommissioning Costs by Task and Year



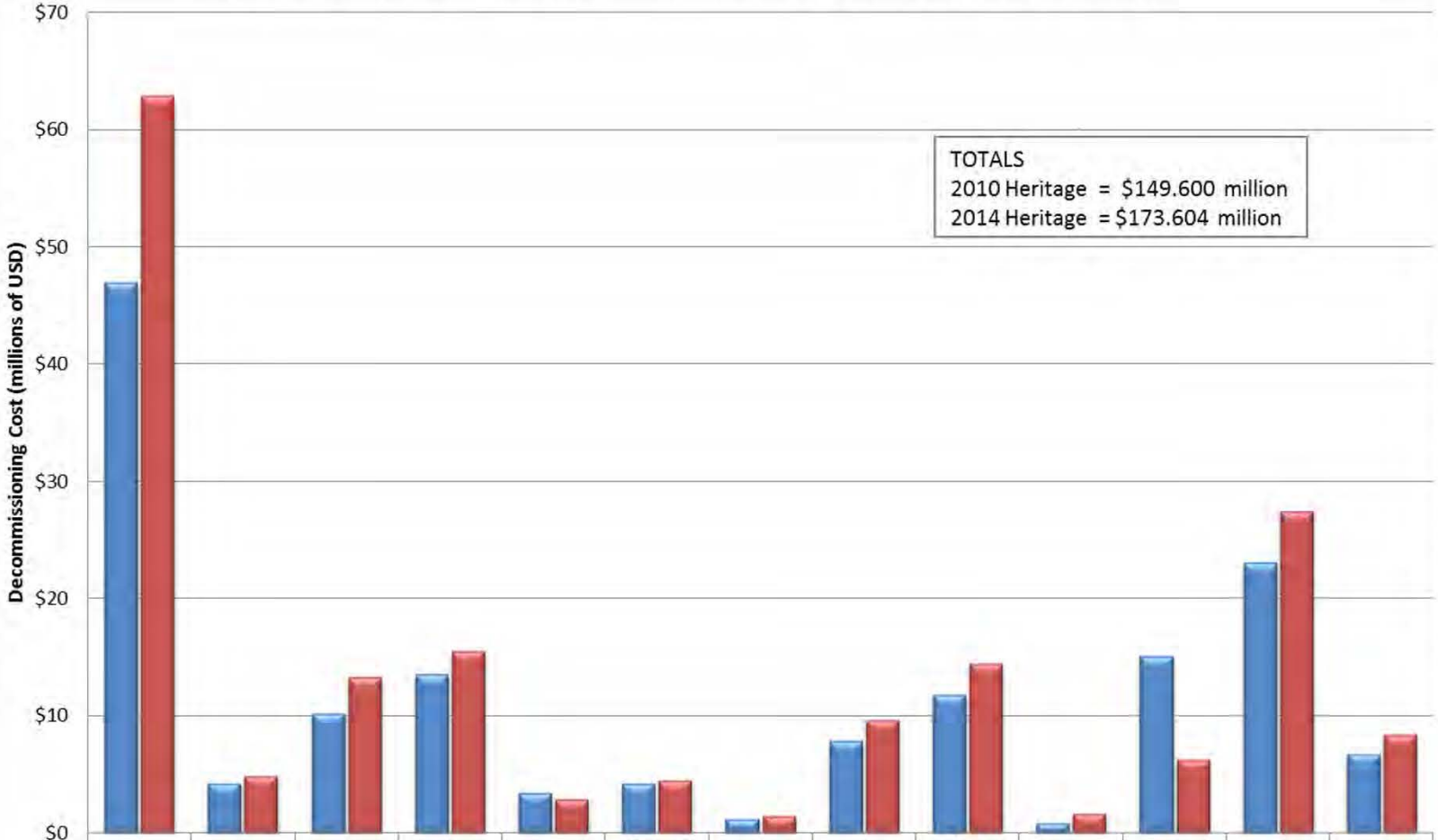
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
2010	$33.076	$3.900	$3.729	$4.752	$2.708	$0.000	$1.282	$6.838	$6.838	$0.511	$9.072	$11.617	$3.956
2014	$42.101	$4.373	$4.933	$5.319	$2.241	$0.000	$1.472	$8.091	$8.091	$1.115	$3.135	$13.968	$4.835

Platform Henry - Decommissioning Costs by Task and Year



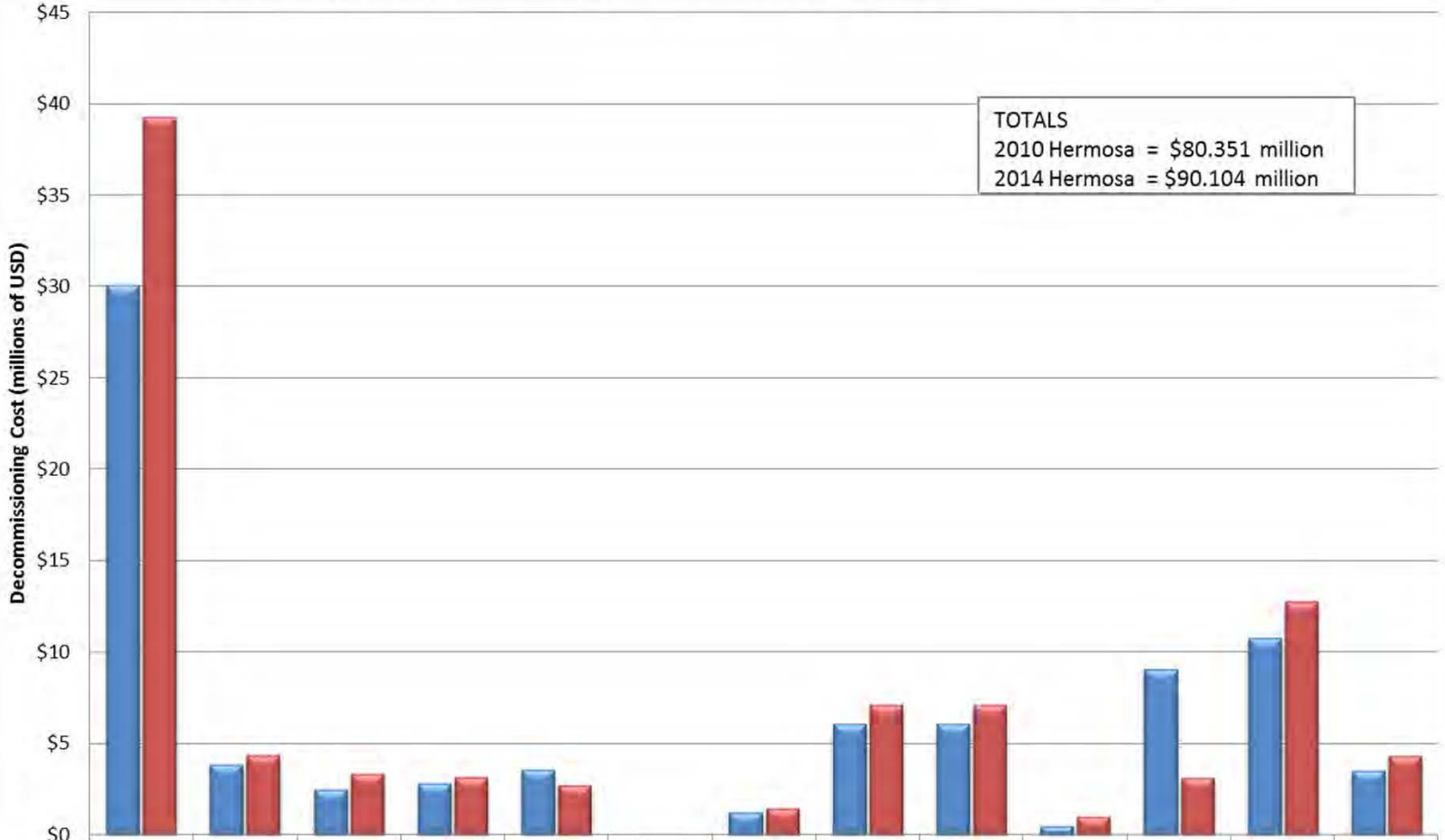
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
2010	$3.352	$1.270	$2.470	$1.804	$0.432	$0.537	$0.709	$0.985	$1.477	$0.426	$3.060	$1.255	$0.846
2014	$2.913	$1.445	$3.678	$1.965	$0.496	$0.576	$0.884	$1.133	$1.699	$0.651	$3.762	$1.484	$0.957

Platform Heritage - Decommissioning Costs by Task and Year



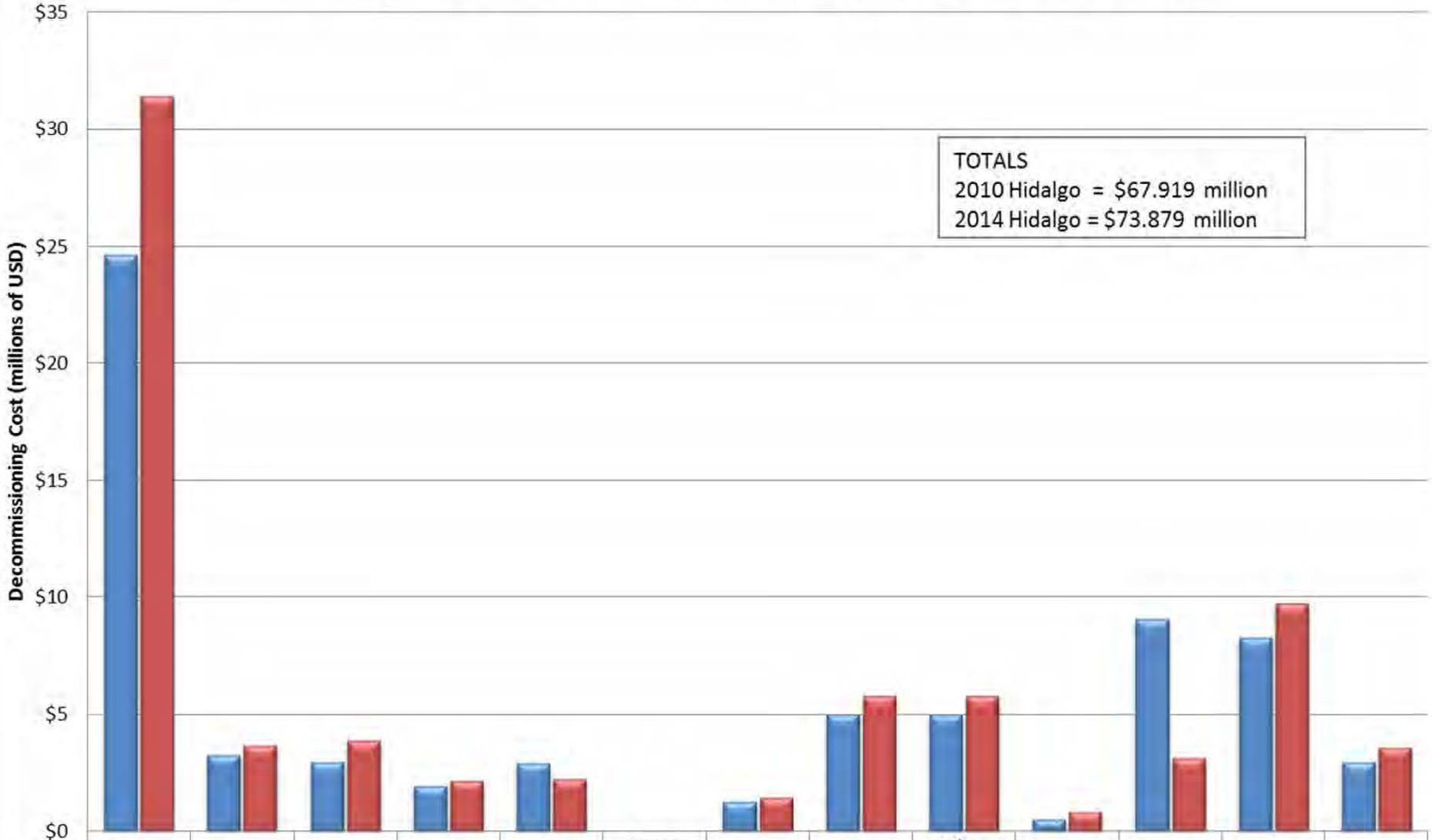
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
2010	$46.946	$4.306	$10.241	$13.578	$3.447	$4.256	$1.282	$7.889	$11.834	$0.852	$15.120	$23.123	$6.725
2014	$62.903	$4.879	$13.312	$15.542	$2.910	$4.570	$1.472	$9.677	$14.516	$1.651	$6.270	$27.453	$8.447

Platform Hermosa - Decommissioning Costs by Task and Year



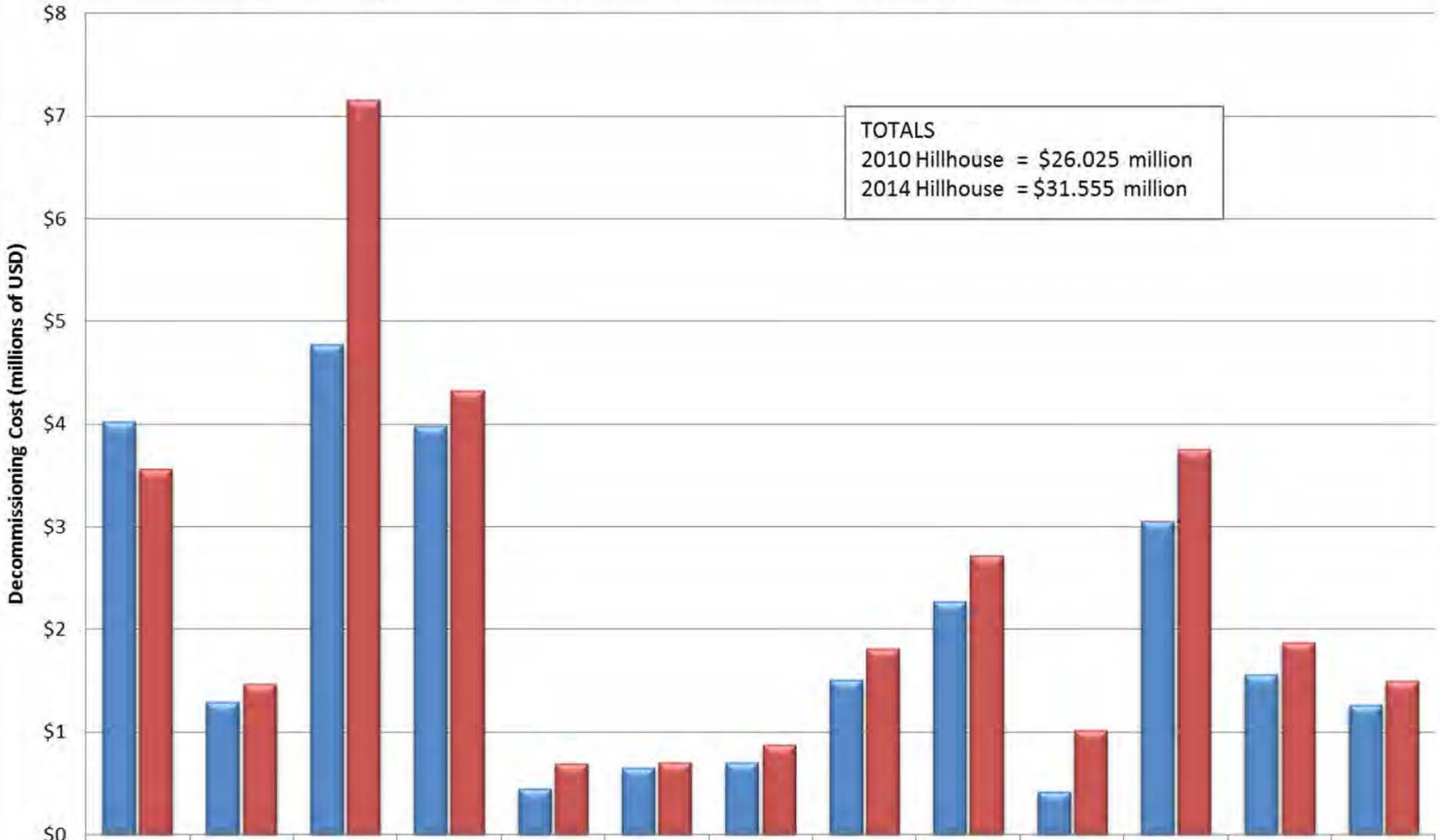
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
2010	$30.083	$3.900	$2.540	$2.840	$3.597	$0.000	$1.282	$6.099	$6.099	$0.511	$9.072	$10.788	$3.539
2014	$39.297	$4.373	$3.379	$3.177	$2.763	$0.000	$1.472	$7.157	$7.157	$1.004	$3.135	$12.832	$4.357

Platform Hidalgo - Decommissioning Costs by Task and Year



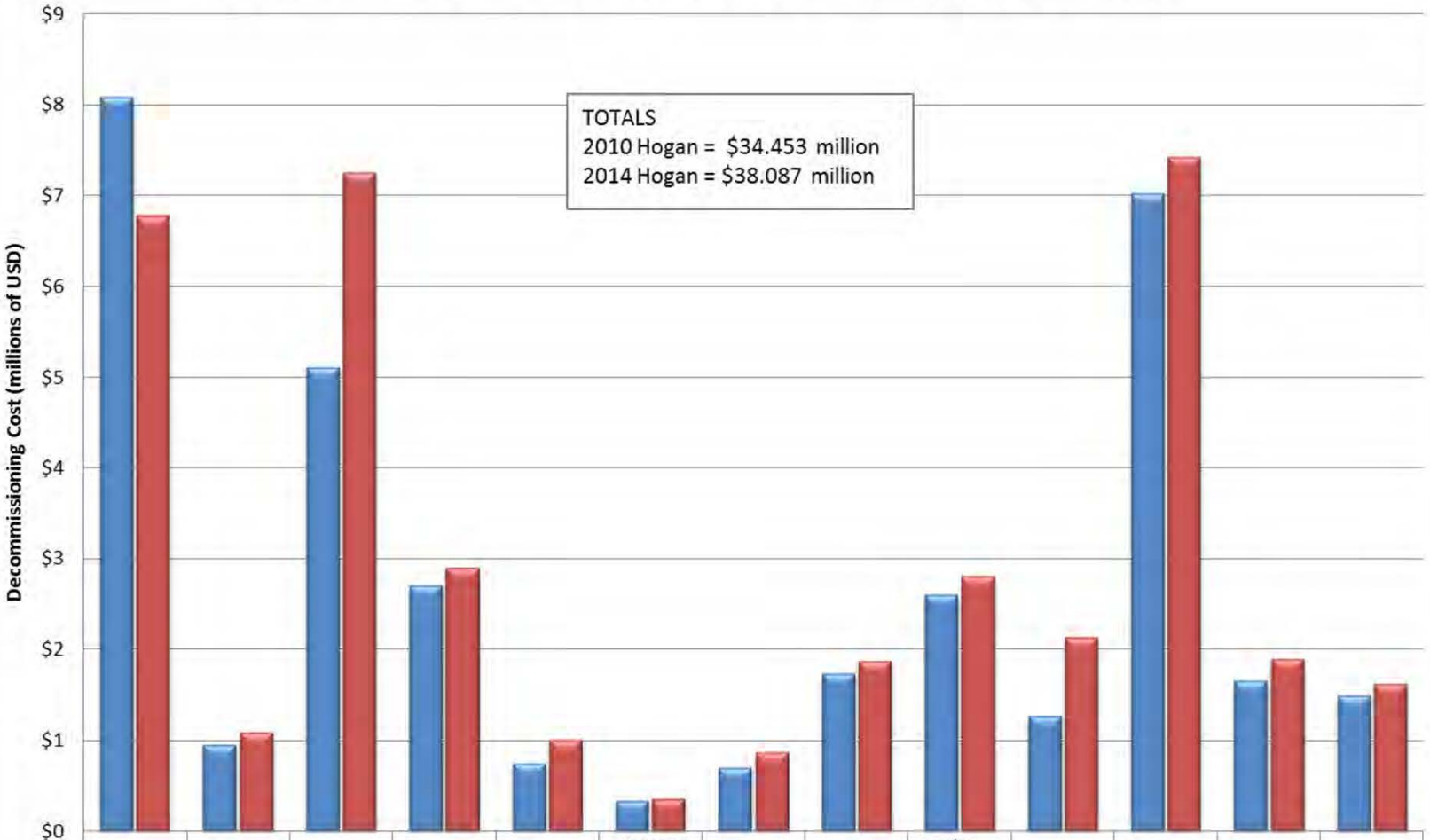
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
2010	$24.622	$3.302	$2.983	$1.958	$2.954	$0.000	$1.282	$5.004	$5.004	$0.511	$9.072	$8.259	$2.968
2014	$31.410	$3.708	$3.917	$2.189	$2.286	$0.000	$1.472	$5.790	$5.790	$0.828	$3.135	$9.757	$3.599

Platform Hillhouse - Decommissioning Costs by Task and Year



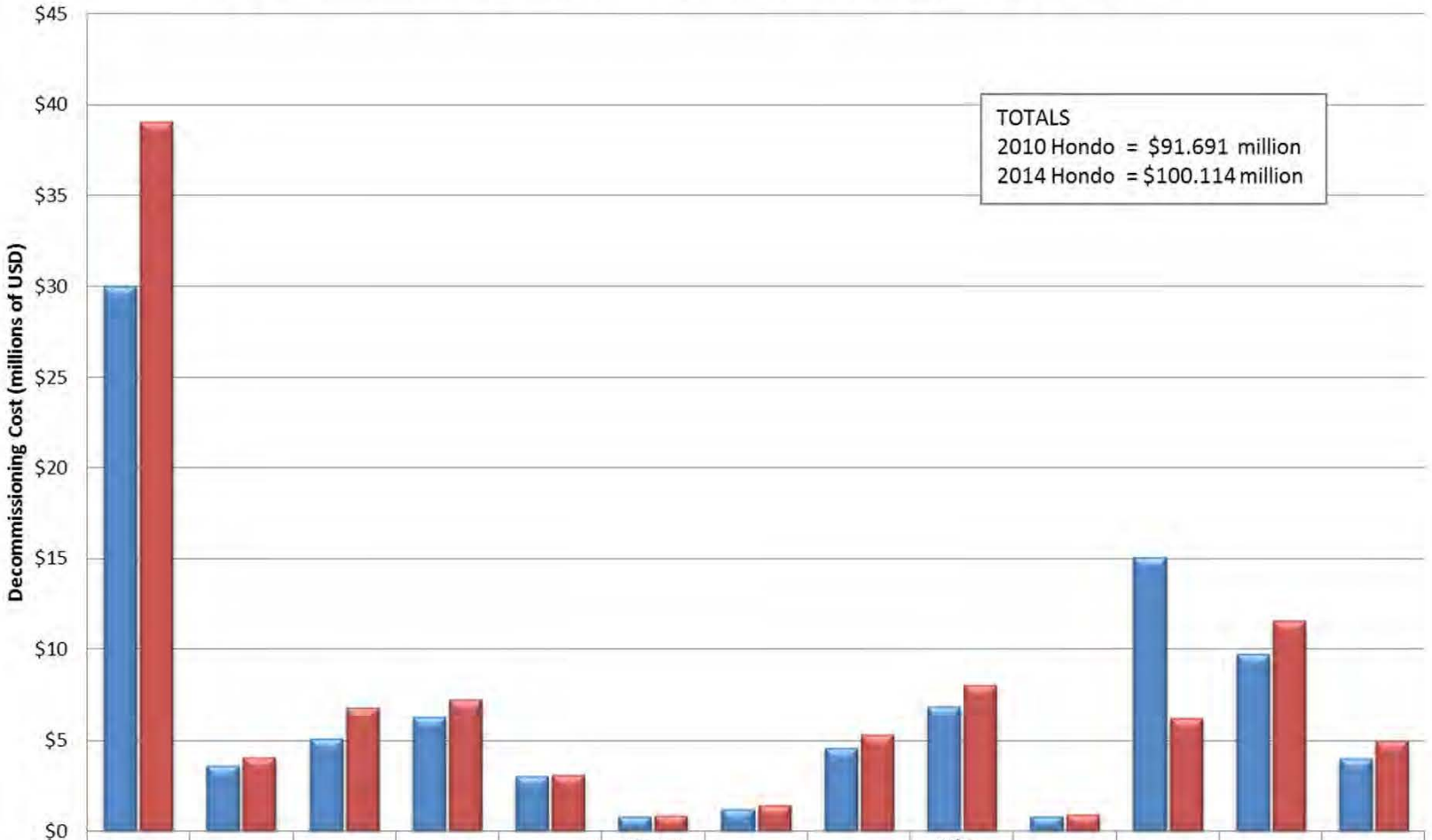
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
2010	$4.021	$1.296	$4.779	$3.985	$0.456	$0.664	$0.709	$1.517	$2.276	$0.426	$3.060	$1.563	$1.273
2014	$3.566	$1.474	$7.160	$4.331	$0.705	$0.712	$0.884	$1.818	$2.727	$1.026	$3.762	$1.884	$1.507

Platform Hogan - Decommissioning Costs by Task and Year



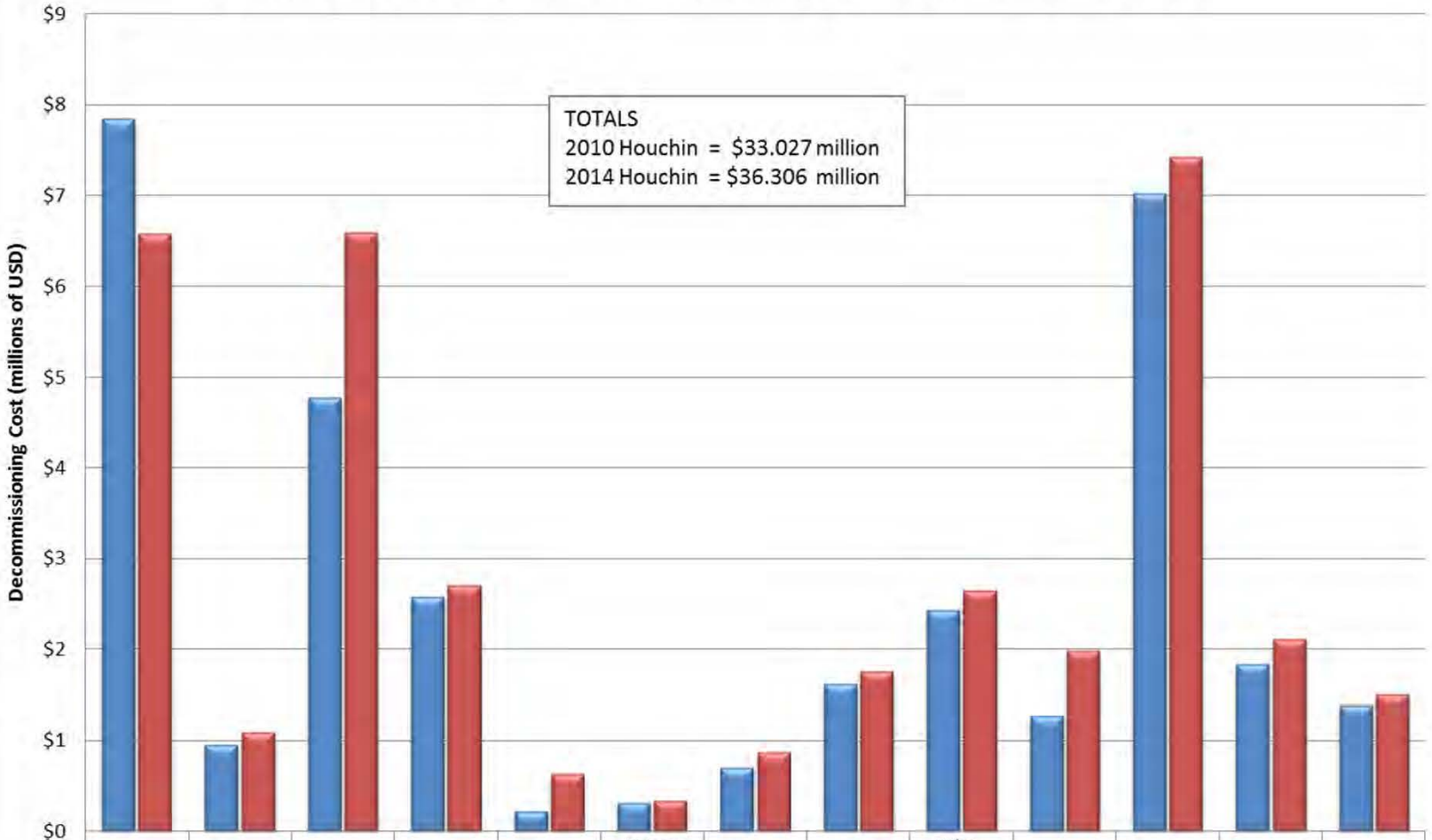
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
2010	$8.087	$0.958	$5.109	$2.712	$0.750	$0.346	$0.709	$1.735	$2.603	$1.278	$7.020	$1.654	$1.494
2014	$6.786	$1.097	$7.247	$2.906	$1.015	$0.370	$0.884	$1.875	$2.813	$2.140	$7.425	$1.903	$1.624

Platform Hondo - Decommissioning Costs by Task and Year



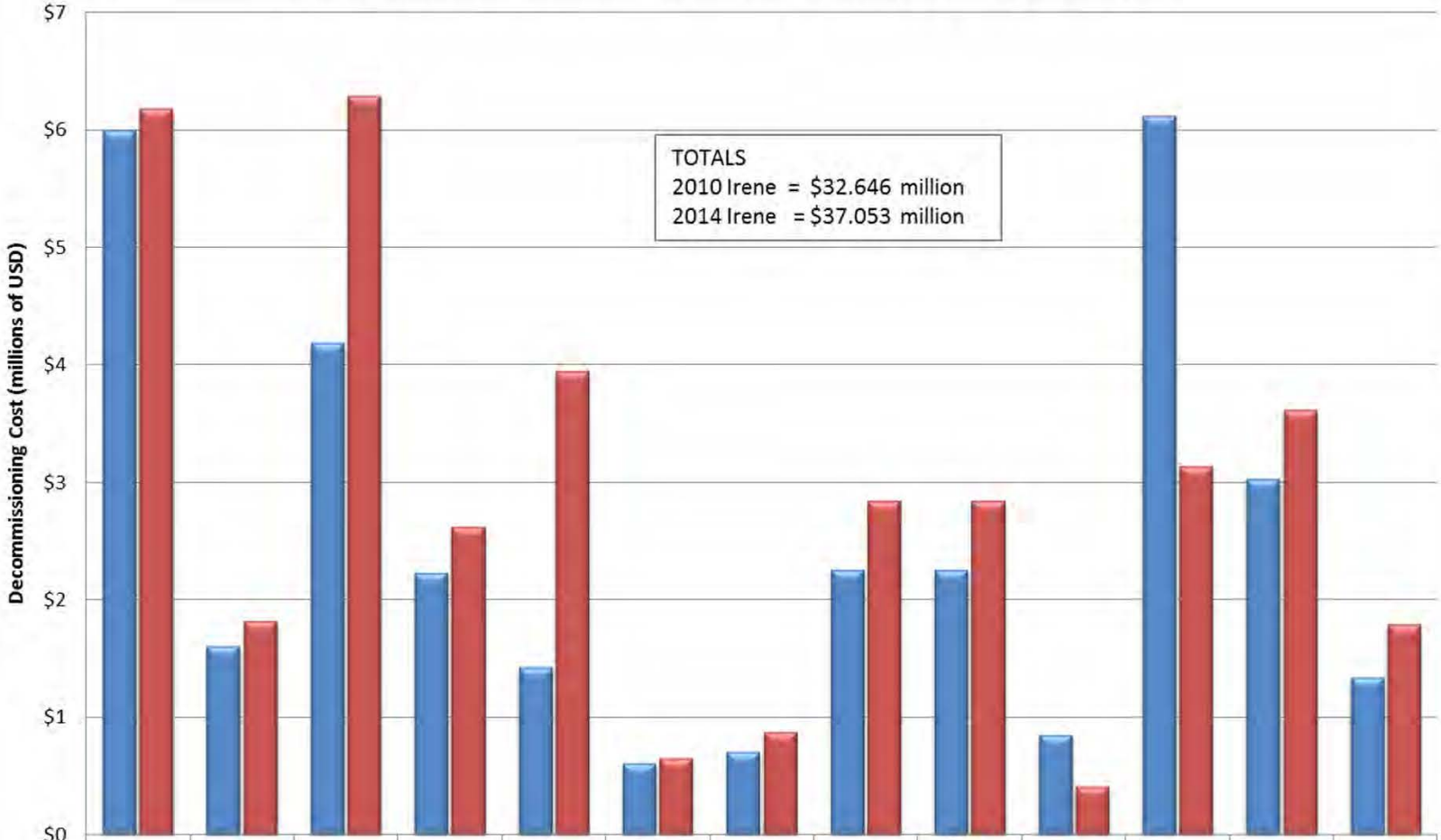
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
2010	$30.030	$3.635	$5.145	$6.341	$3.070	$0.859	$1.282	$4.629	$6.943	$0.852	$15.120	$9.755	$4.029
2014	$39.063	$4.086	$6.846	$7.253	$3.158	$0.922	$1.472	$5.379	$8.069	$0.984	$6.270	$11.589	$5.024

Platform Houchin - Decommissioning Costs by Task and Year

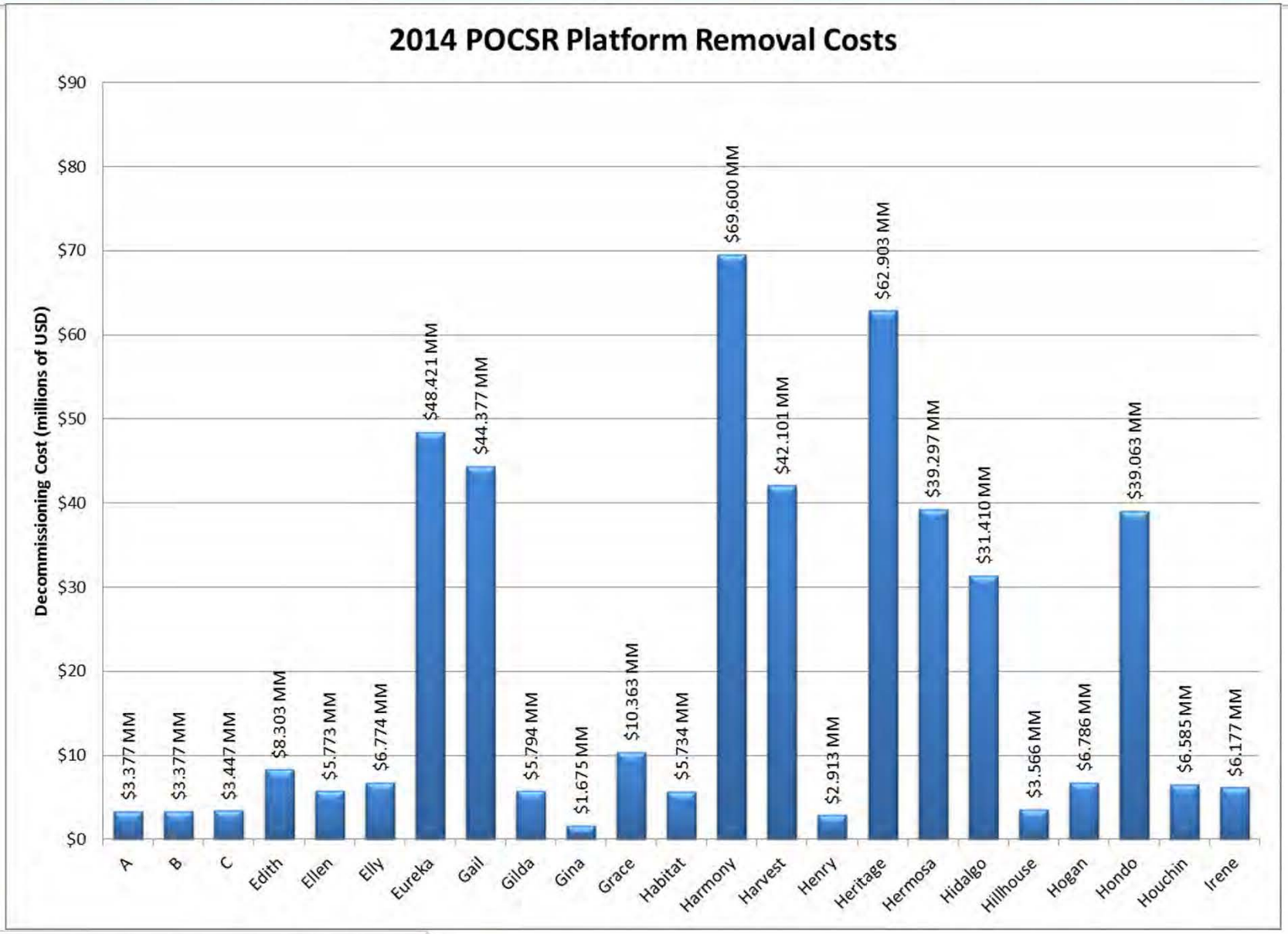


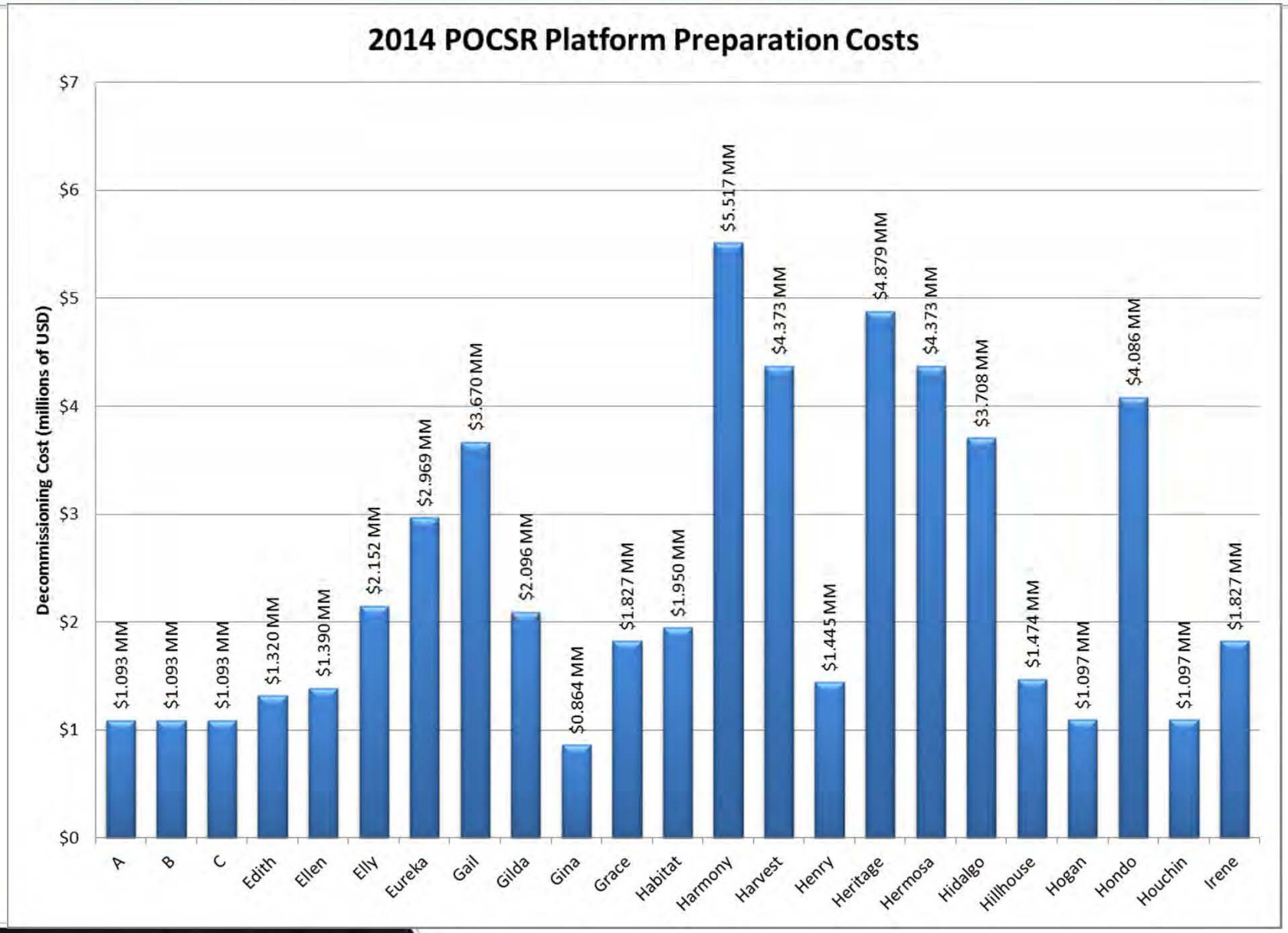
	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
2010	$7.845	$0.958	$4.781	$2.588	$0.228	$0.321	$0.709	$1.625	$2.437	$1.278	$7.020	$1.844	$1.394
2014	$6.585	$1.097	$6.596	$2.707	$0.639	$0.343	$0.884	$1.766	$2.649	$1.987	$7.425	$2.120	$1.508

Platform Irene - Decommissioning Costs by Task and Year



	Platform Removal	Platform Prep	Well P&A	Cond Removal	Pipeline Decom	Power Cable Removal	Site Clearance	Weather Cont	Misc. Work Provision	Permit & Reg Comp	DB Mob & Demob	Materials Disposal	PMEP
2010	$5.997	$1.606	$4.192	$2.234	$1.429	$0.612	$0.709	$2.260	$2.260	$0.852	$6.120	$3.034	$1.342
2014	$6.177	$1.827	$6.289	$2.621	$3.951	$0.656	$0.884	$2.844	$2.844	$0.414	$3.135	$3.617	$1.792


2014 POCSR Platform Removal Costs
Decommissioning Cost (millions of USD)
$90
$80
$70
$60
$50
$40
$30
$20
$10
$0
$3.377 MM
$3.377 MM
$3.447 MM
$8.303 MM
$5.773 MM
$6.774 MM
$48.421 MM
$44.377 MM
$5.794 MM
$1.675 MM
$10.363 MM
$5.734 MM
$69.600 MM
$42.101 MM
$2.913 MM
$62.903 MM
$39.297 MM
$31.410 MM
$3.566 MM
$6.786 MM
$39.063 MM
$6.585 MM
$6.177 MM
A
B
C
Edith
Ellen
Elly
Eureka
Gail
Gilda
Gina
Grace
Habitat
Harmony
Harvest
Henry
Heritage
Hermosa
Hidalgo
Hillhouse
Hogan
Hondo
Houchin
Irene


2014 POCSR Platform Preparation Costs
Decommissioning Cost (millions of USD)
$0
$1
$2
$3
$4
$5
$6
$7
$1.093 MM
$1.093 MM
$1.093 MM
$1.320 MM
$1.390 MM
$2.152 MM
$2.969 MM
$3.670 MM
$2.096 MM
$0.864 MM
$1.827 MM
$1.950 MM
$5.517 MM
$4.373 MM
$1.445 MM
$4.879 MM
$4.373 MM
$3.708 MM
$1.474 MM
$1.097 MM
$4.086 MM
$1.097 MM
$1.827 MM
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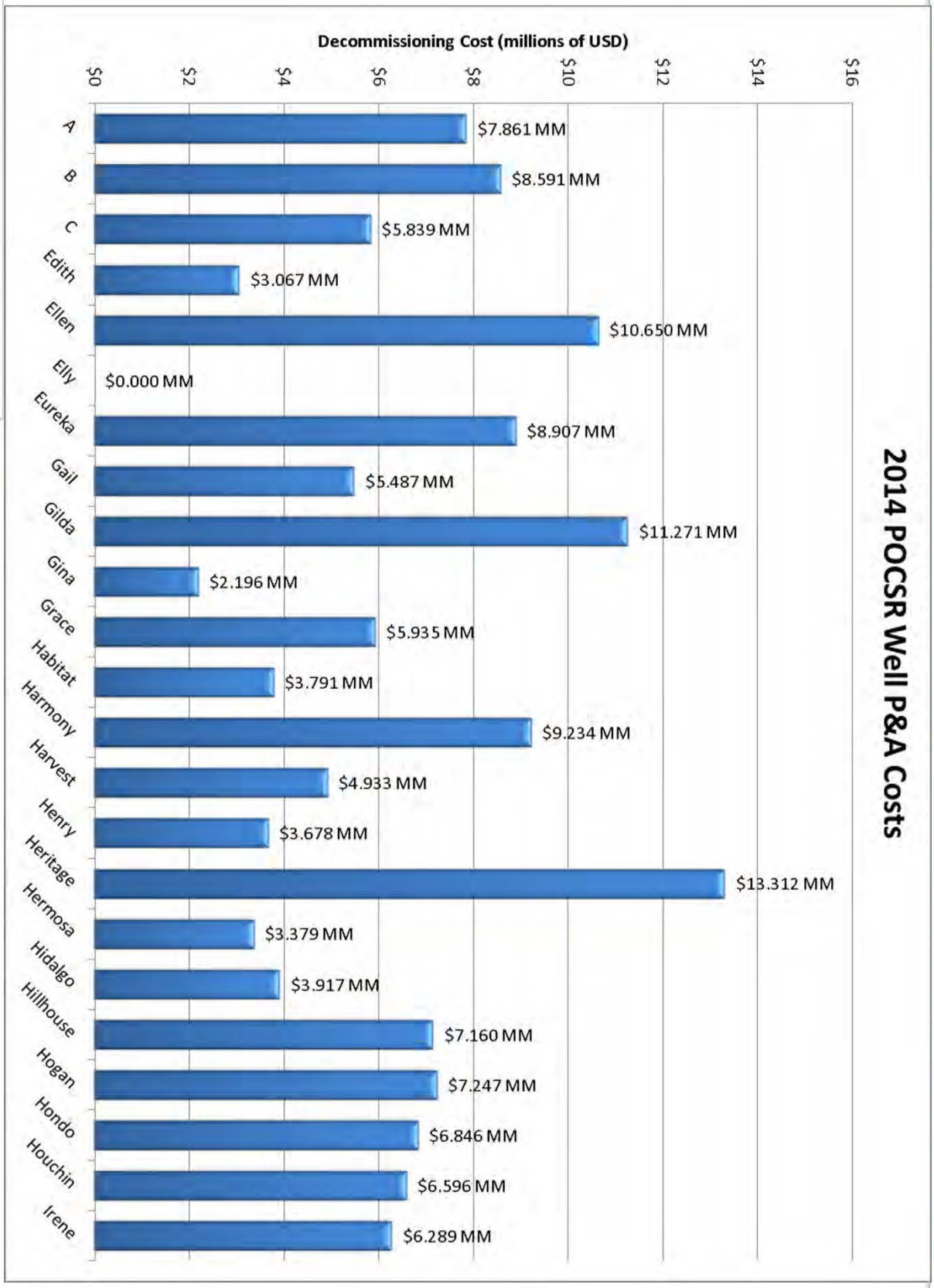
2014 POCSR Well P&A Costs
Decommissioning Cost (millions of USD)
$0
$2
$4
$6
$8
$10
$12
$14
$16
A
B
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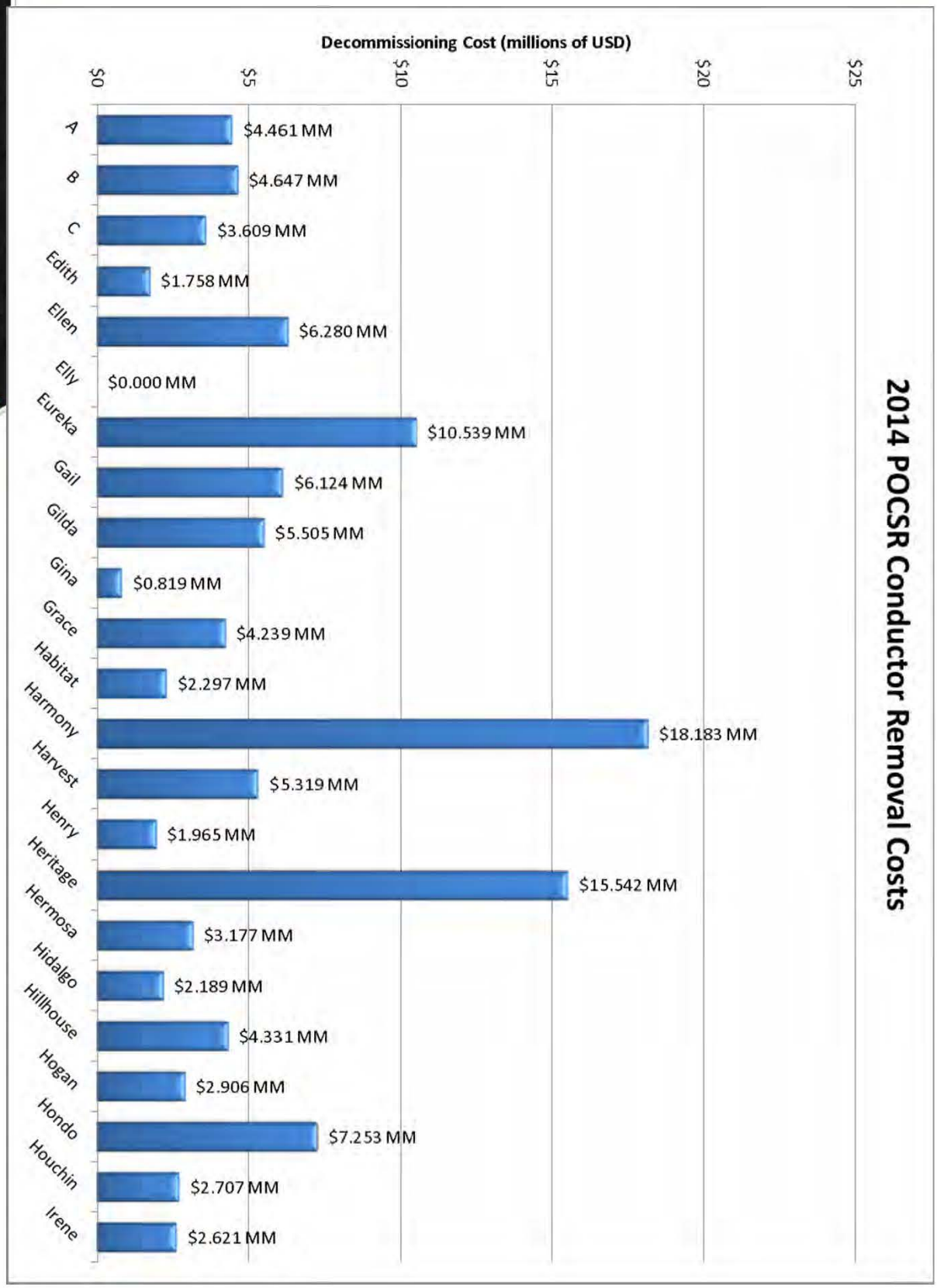
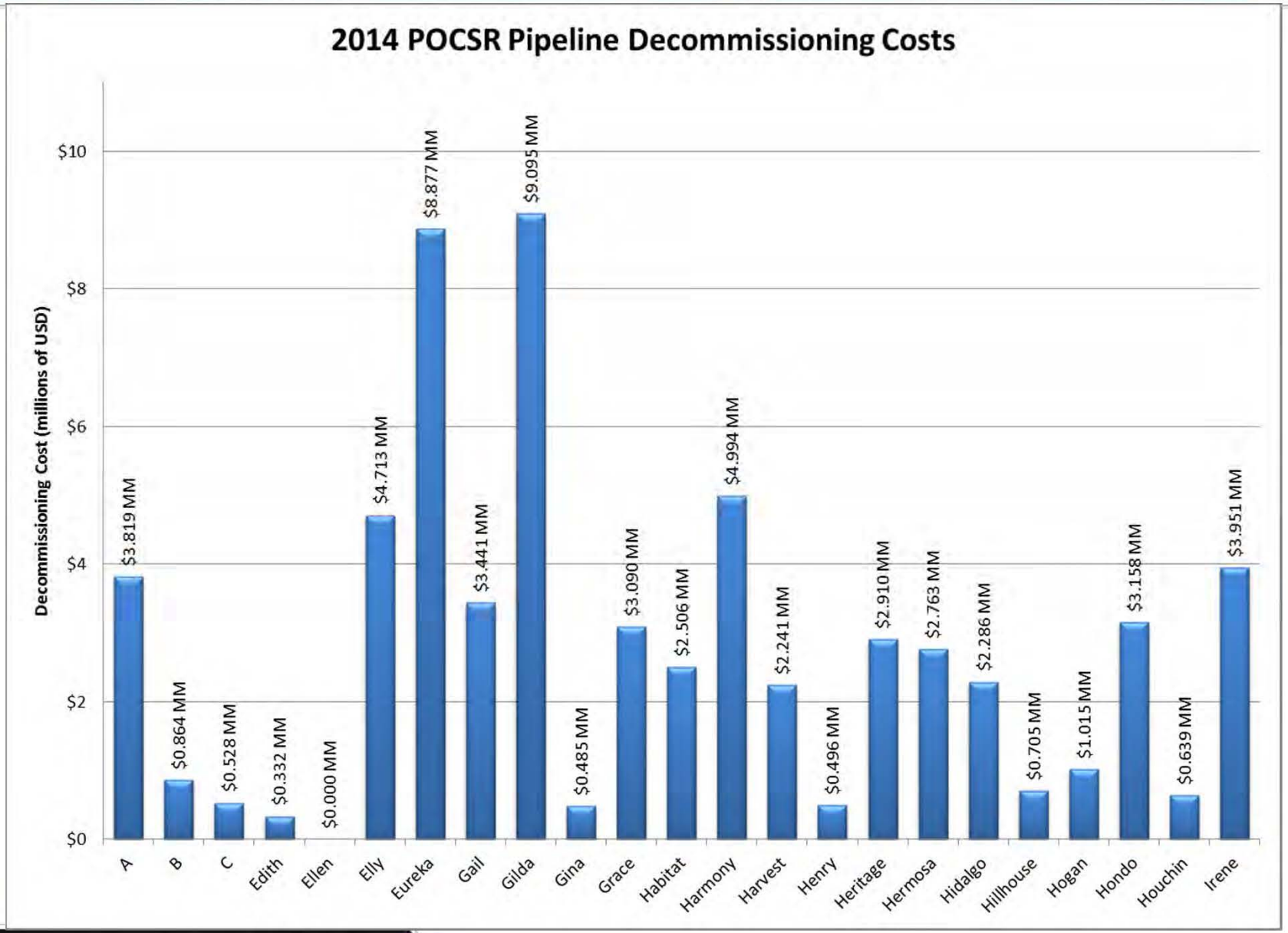
Edith
Ellen
Elly
Eureka
Gail
Gilda
Gina
Grace
Habitat
Harmony
Harvest
Henry
Heritage
Hermosa
Hidalgo
Hillhouse
Hogan
Hondo
Houchin
Irene
$7.861 MM
$8.591 MM
$5.839 MM
$3.067 MM
$10.650 MM
$0.000 MM
$8.907 MM
$5.487 MM
$11.271 MM
$2.196 MM
$5.935 MM
$3.791 MM
$9.234 MM
$4.933 MM
$3.678 MM
$13.312 MM
$3.379 MM
$3.917 MM
$7.160 MM
$7.247 MM
$6.846 MM
$6.596 MM
$6.289 MM


2014 POCSR Conductor Removal Costs
Decommissioning Cost (millions of USD)
$0
$5
$10
$15
$20
$25
A
$4.461 MM
B
$4.647 MM
C
$3.609 MM
Edith
$1.758 MM
Ellen
$6.280 MM
Elly
$0.000 MM
Eureka
$10.539 MM
Gail
$6.124 MM
Gilda
$5.505 MM
Gina
$0.819 MM
Grace
$4.239 MM
Habitat
$2.297 MM
Harmony
$18.183 MM
Harvest
$5.319 MM
Henry
$1.965 MM
Heritage
$15.542 MM
Hermosa
$3.177 MM
Hidalgo
$2.189 MM
Hillhouse
$4.331 MM
Hogan
$2.906 MM
Hondo
$7.253 MM
Houchin
$2.707 MM
Irene
$2.621 MM


2014 POCSR Pipeline Decommissioning Costs
Decommissioning Cost (millions of USD)
$0
$2
$4
$6
$8
$10
$3.819 MM
$0.864 MM
$0.528 MM
$0.332 MM
$0.000 MM
$4.713 MM
$8.877 MM
$3.441 MM
$9.095 MM
$0.485 MM
$3.090 MM
$2.506 MM
$4.994 MM
$2.241 MM
$0.496 MM
$2.910 MM
$2.763 MM
$2.286 MM
$0.705 MM
$1.015 MM
$3.158 MM
$0.639 MM
$3.951 MM
A
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Edith
Ellen
Elly
Eureka
Gail
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Gina
Grace
Habitat
Harmony
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Heritage
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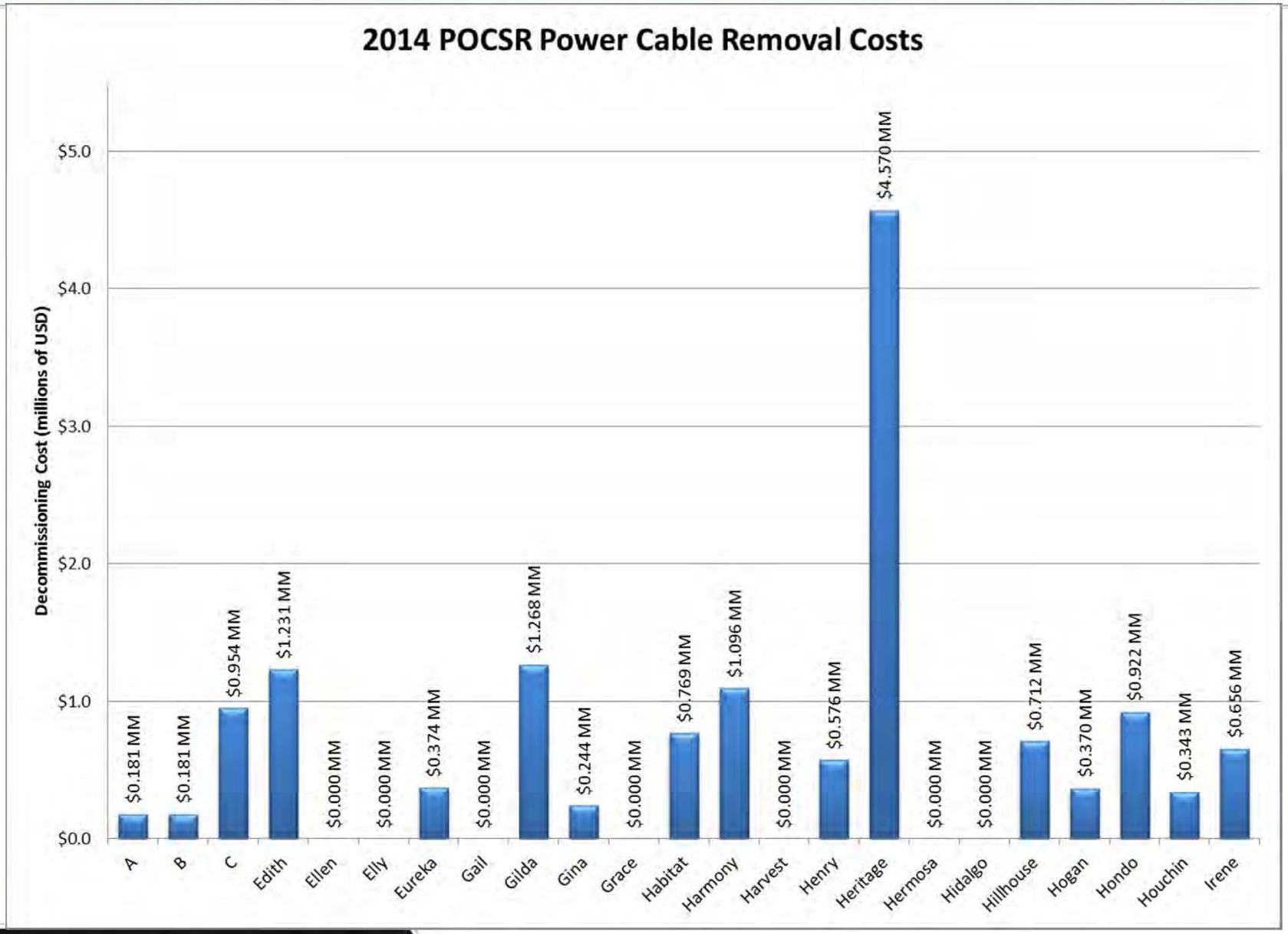
2014 POCSR Power Cable Removal Costs
Decommissioning Cost (millions of USD)
$5.0
$4.0
$3.0
$2.0
$1.0
$0.0
$0.181 MM
$0.181 MM
$0.954 MM
$1.231 MM
$0.000 MM
$0.000 MM
$0.374 MM
$0.000 MM
$1.268 MM
$0.244 MM
$0.000 MM
$0.769 MM
$1.096 MM
$0.000 MM
$0.576 MM
$4.570 MM
$0.000 MM
$0.000 MM
$0.712 MM
$0.370 MM
$0.922 MM
$0.343 MM
$0.656 MM
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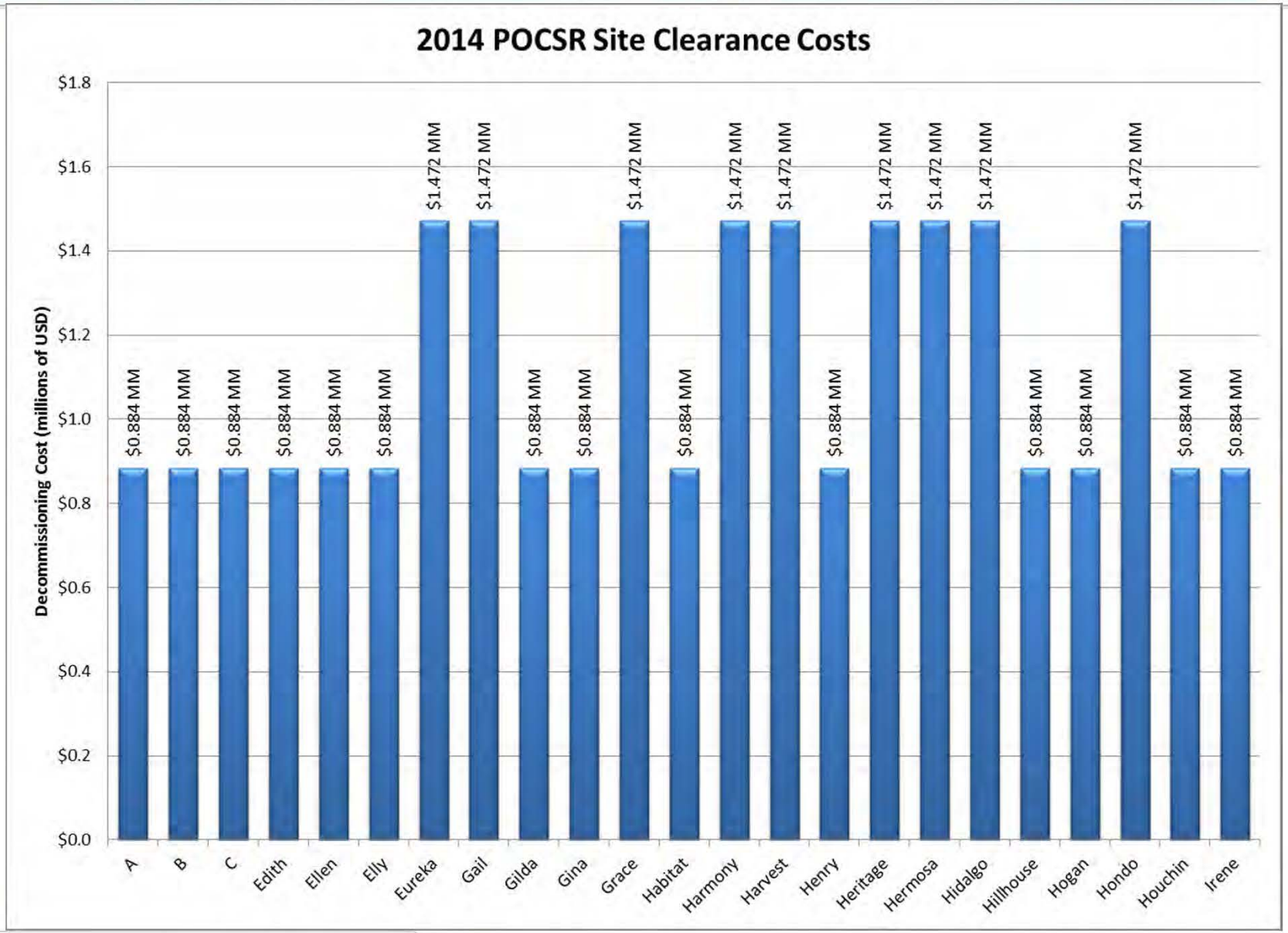
2014 POCSR Site Clearance Costs
Decommissioning Cost (millions of USD)
$1.8
$1.6
$1.4
$1.2
$1.0
$0.8
$0.6
$0.4
$0.2
$0.0
$0.884 MM
$1.472 MM
A
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Edith
Ellen
Elly
Eureka
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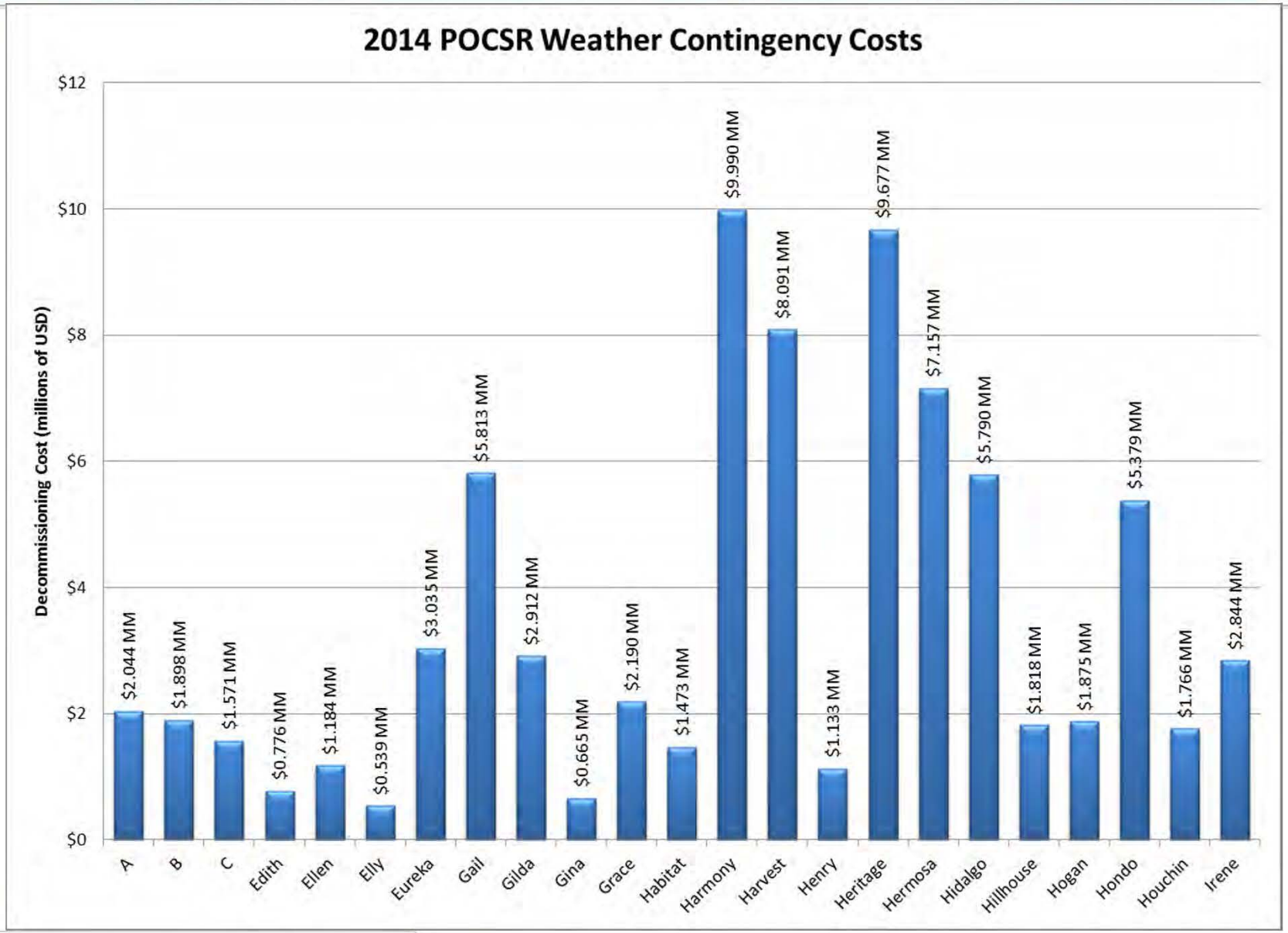
2014 POCSR Weather Contingency Costs
Decommissioning Cost (millions of USD)
$0
$2
$4
$6
$8
$10
$12
$2.044 MM
$1.898 MM
$1.571 MM
$0.776 MM
$1.184 MM
$0.539 MM
$3.035 MM
$5.813 MM
$2.912 MM
$0.665 MM
$2.190 MM
$1.473 MM
$9.990 MM
$8.091 MM
$1.133 MM
$9.677 MM
$7.157 MM
$5.790 MM
$1.818 MM
$1.875 MM
$5.379 MM
$1.766 MM
$2.844 MM
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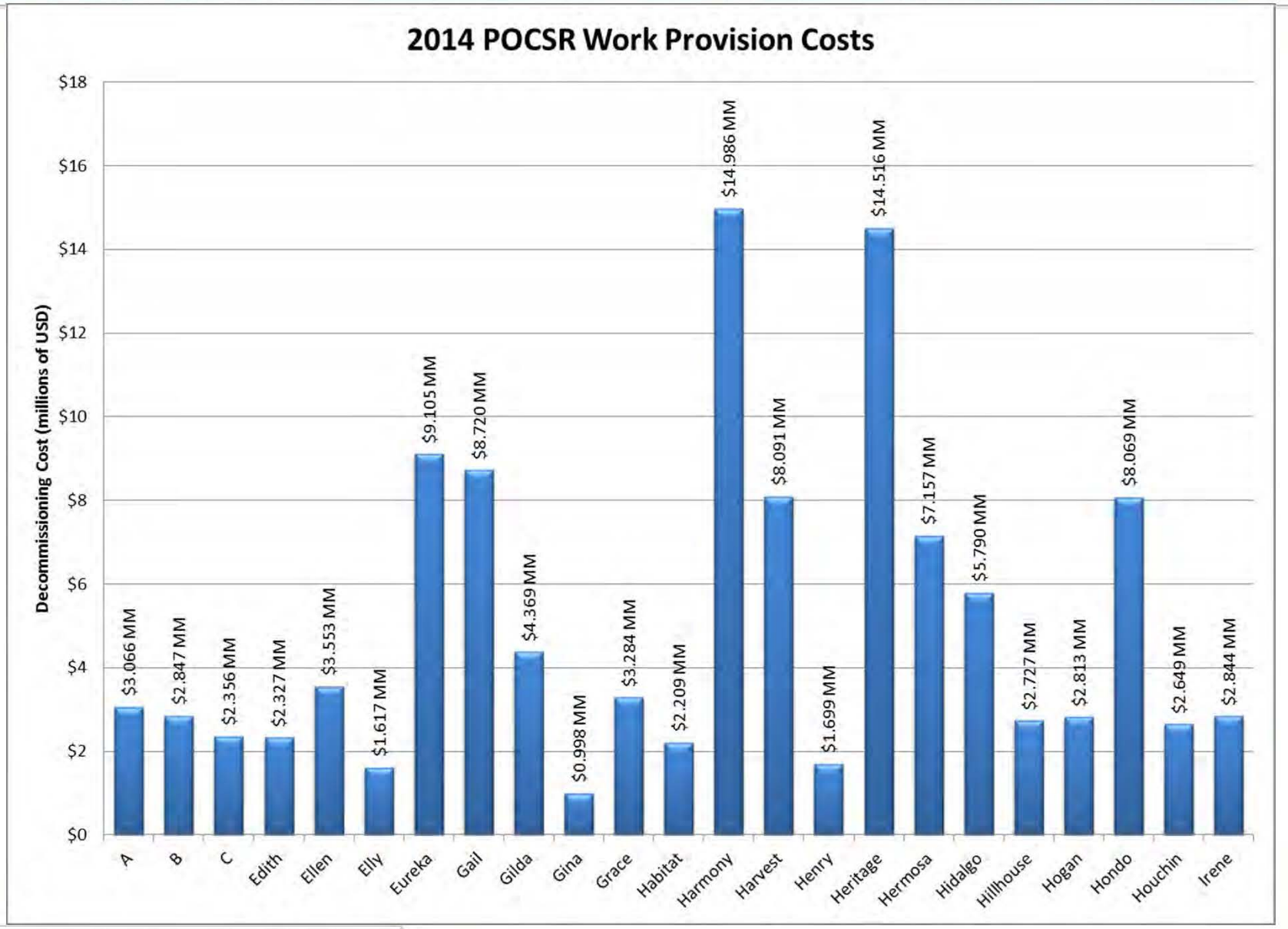
2014 POCSR Work Provision Costs
Decommissioning Cost (millions of USD)
$0
$2
$4
$6
$8
$10
$12
$14
$16
$18
$3.066 MM
$2.847 MM
$2.356 MM
$2.327 MM
$3.553 MM
$1.617 MM
$9.105 MM
$8.720 MM
$4.369 MM
$0.998 MM
$3.284 MM
$2.209 MM
$14.986 MM
$8.091 MM
$1.699 MM
$14.516 MM
$7.157 MM
$5.790 MM
$2.727 MM
$2.813 MM
$8.069 MM
$2.649 MM
$2.844 MM
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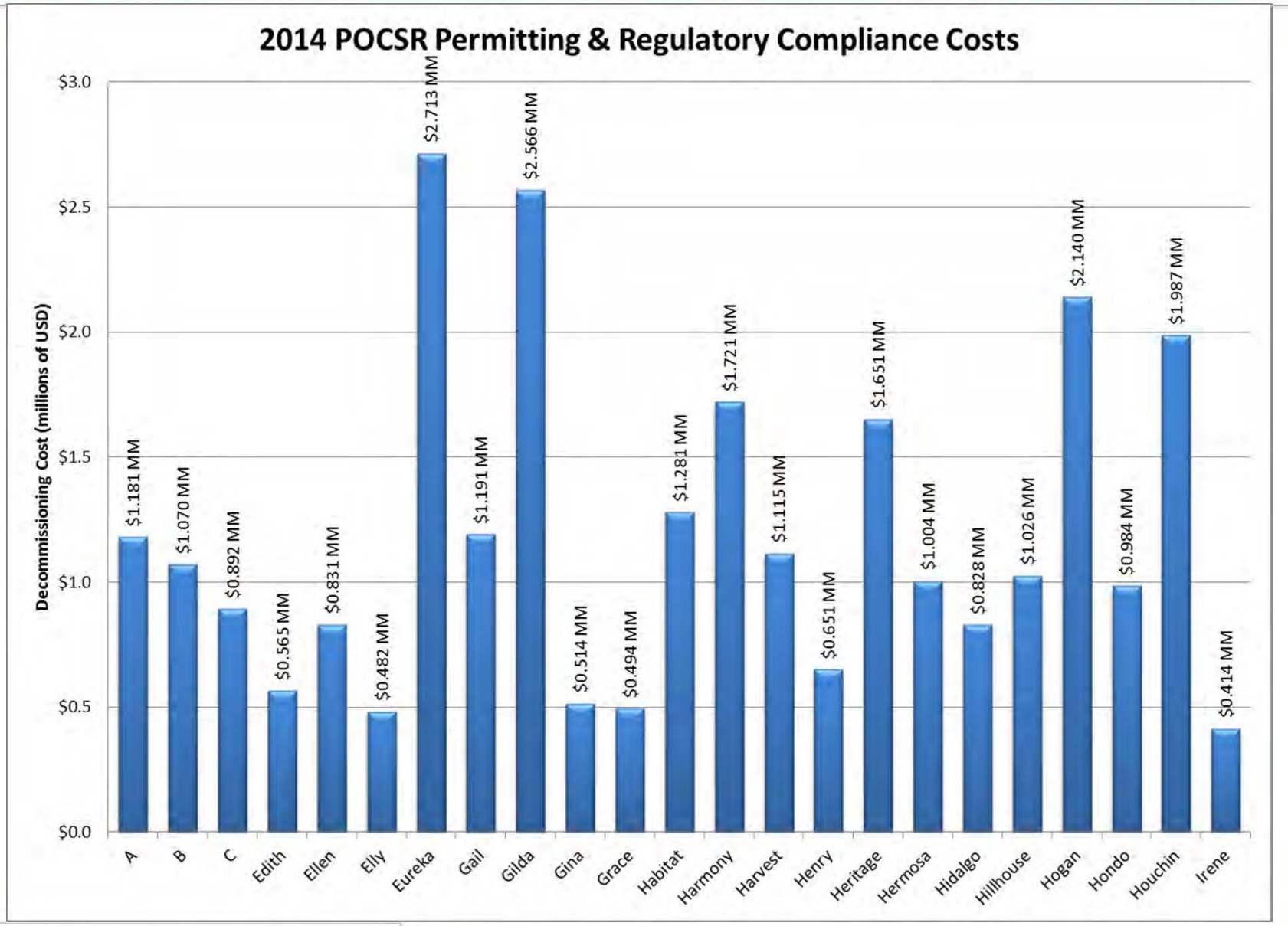
2014 POCSR Permitting & Regulatory Compliance Costs
Decommissioning Cost (millions of USD)
$3.0
$2.5
$2.0
$1.5
$1.0
$0.5
$0.0
$1.181 MM
$1.070 MM
$0.892 MM
$0.565 MM
$0.831 MM
$0.482 MM
$2.713 MM
$1.191 MM
$2.566 MM
$0.514 MM
$0.494 MM
$1.281 MM
$1.721 MM
$1.115 MM
$0.651 MM
$1.651 MM
$1.004 MM
$0.828 MM
$1.026 MM
$2.140 MM
$0.984 MM
$1.987 MM
$0.414 MM
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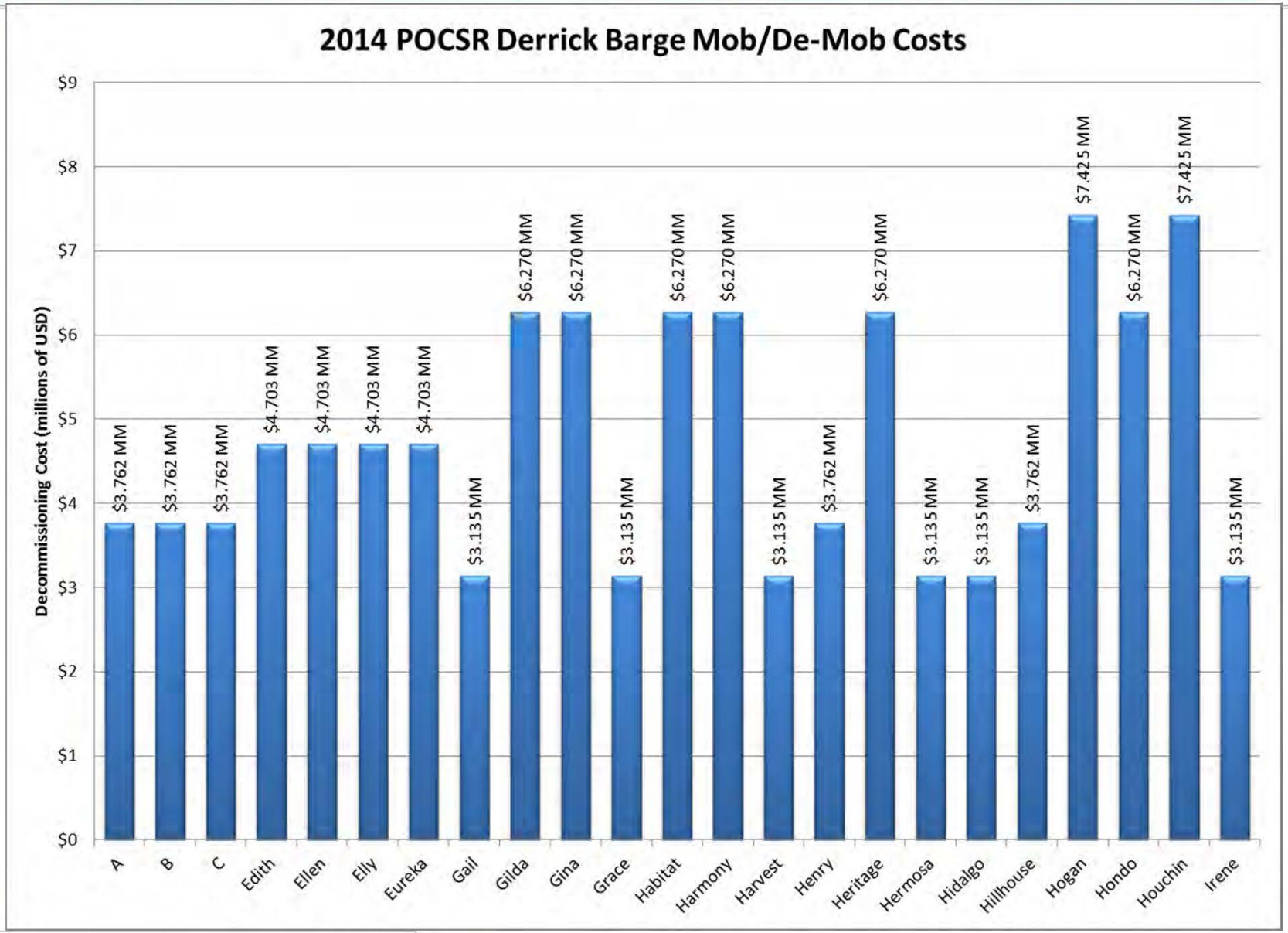
2014 POCSR Derrick Barge Mob/De-Mob Costs
Decommissioning Cost (millions of USD)
$0
$1
$2
$3
$4
$5
$6
$7
$8
$9
$3.762 MM
$3.762 MM
$3.762 MM
$4.703 MM
$4.703 MM
$4.703 MM
$4.703 MM
$3.135 MM
$6.270 MM
$6.270 MM
$3.135 MM
$6.270 MM
$6.270 MM
$3.135 MM
$3.762 MM
$6.270 MM
$3.135 MM
$3.135 MM
$3.762 MM
$7.425 MM
$6.270 MM
$7.425 MM
$3.135 MM
A
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Edith
Ellen
Elly
Eureka
Gail
Gilda
Gina
Grace
Habitat
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Harvest
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Heritage
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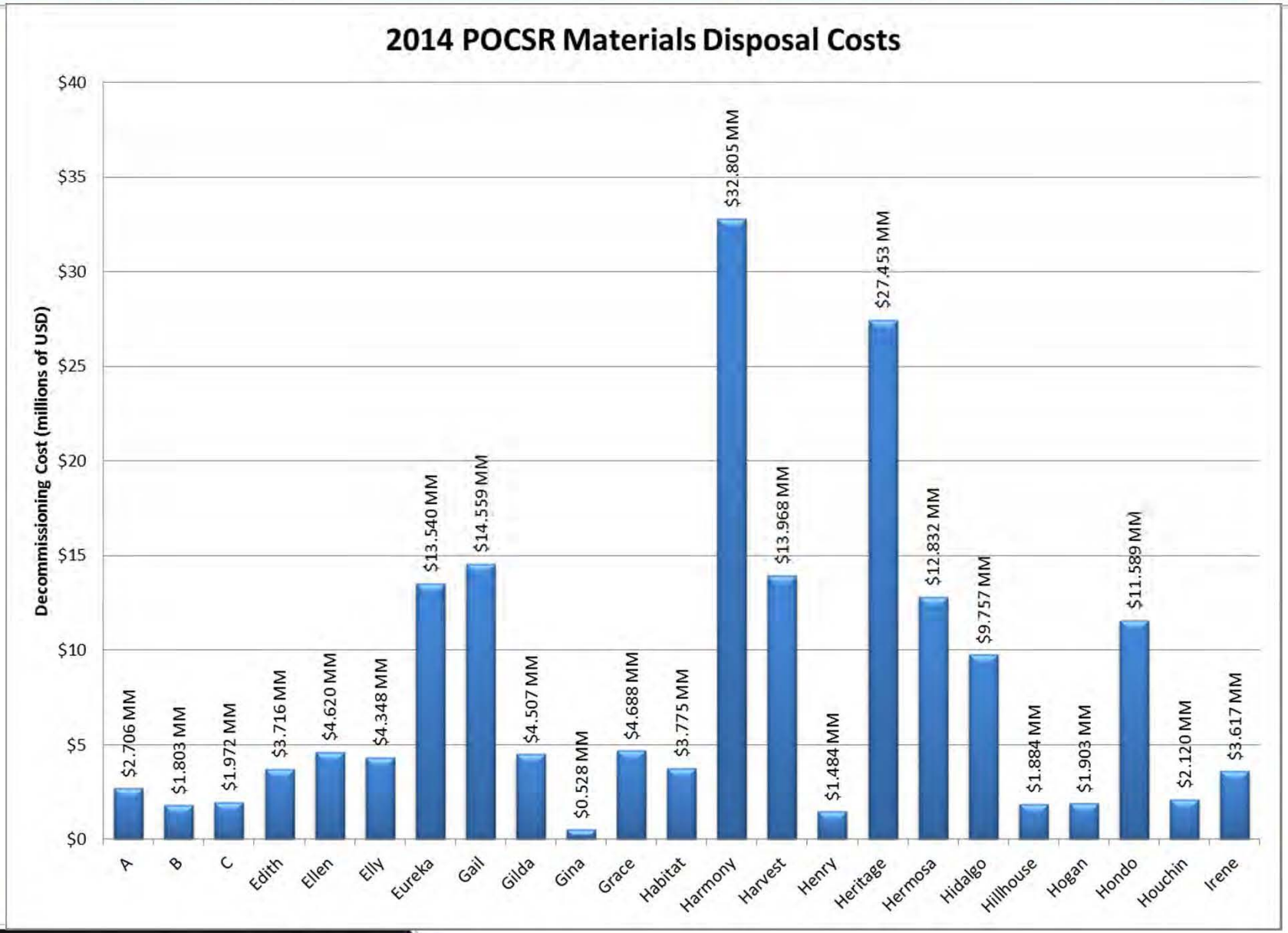
2014 POCSR Materials Disposal Costs
Decommissioning Cost (millions of USD)
$40
$35
$30
$25
$20
$15
$10
$5
$0
$2.706 MM
$1.803 MM
$1.972 MM
$3.716 MM
$4.620 MM
$4.348 MM
$13.540 MM
$14.559 MM
$4.507 MM
$0.528 MM
$4.688 MM
$3.775 MM
$32.805 MM
$13.968 MM
$1.484 MM
$27.453 MM
$12.832 MM
$9.757 MM
$1.884 MM
$1.903 MM
$11.589 MM
$2.120 MM
$3.617 MM
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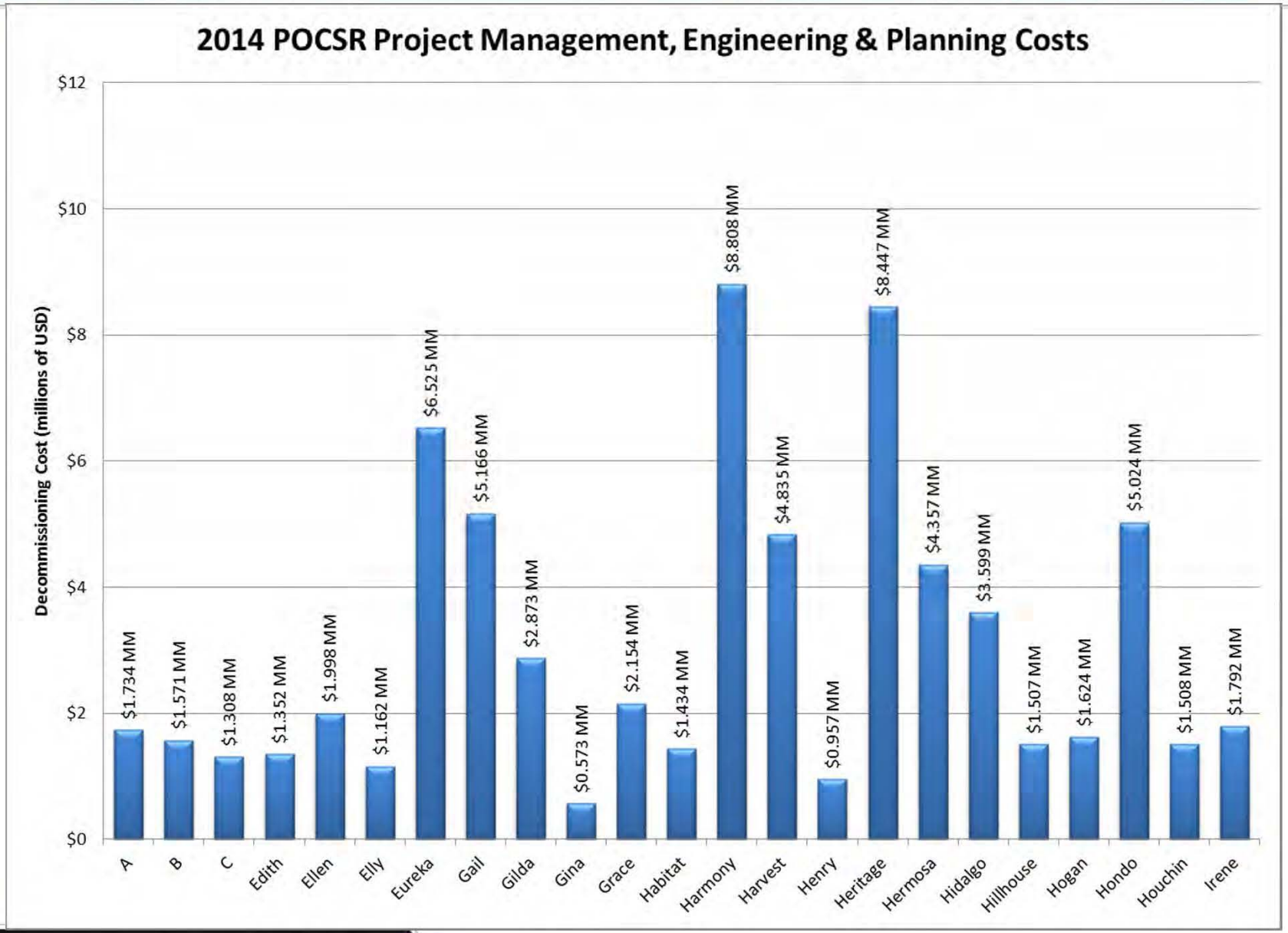
2014 POCSR Project Management, Engineering & Planning Costs
Decommissioning Cost (millions of USD)
$0
$2
$4
$6
$8
$10
$12
$1.734 MM
$1.571 MM
$1.308 MM
$1.352 MM
$1.998 MM
$1.162 MM
$6.525 MM
$5.166 MM
$2.873 MM
$0.573 MM
$2.154 MM
$1.434 MM
$8.808 MM
$4.835 MM
$0.957 MM
$8.447 MM
$4.357 MM
$3.599 MM
$1.507 MM
$1.624 MM
$5.024 MM
$1.508 MM
$1.792 MM
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TSB Offshore, Inc.

Corporate Headquarters

24955 Interstate 45 North
The Woodlands, TX 77380
Phone: 713.364.5179
www.tsboffshore.com

Management Contacts

Jerel C. “Jerry” Gilmore, PE	President
Robert C. Byrd, PhD, PE	Vice President
Steven M. Wiese	Director - Consulting