# Submarine Cable Update

June 2015

## **Bid Process**

#### Step 1:

OPALCO requested project bid documents and bidder list from the following Utilities:

- Public Utility District No. 2 of Pacific County Willapa Bay Cable 115 kV 9 mile submarine cable (Bid 2009-2013)
  - Project abandon due to cost and complexity)
- Tanner Electric Cooperative Anderson Island (2010) Complete
- Peninsula Light -Fox Island (2011) Complete

Based on the documents received from the three Utilities, the Lopez to San Juan submarine cable replacement project bid documents were developed.

#### Step 2:

Submarine Cable Manufactures contacted for pre-bid information (note: because OPALCO is borrowing funds from RUS only cable manufactures on the "Buy America" list were contacted:

- General Cable
- ABB
- Nexans
- Fujikura
- Sumitomo Electric
- Prysmain Cable

Submarine Cable Manufactures that requested bid documents:

- General Cable
- ABB/Nexans
- Sumitomo Electric
- Prysmian Cable

Submarine Cable Manufactures that submitted bids:

- Sumitomo Electric/RT Casey
- Prysmian Cable/Harbor Offshore, Inc.

## **Bid Process**

#### Step 3:

Cable Bore:

All of the Submarine Cable projects researched above included a Boring segment as part of the Submarine Cable project:

#### Step 4:

Cable Bore contractors contacted for pre-bid information

- Mears group
- Trenchless Construction
- Michels Pipeline Construction
- Christenson Electric

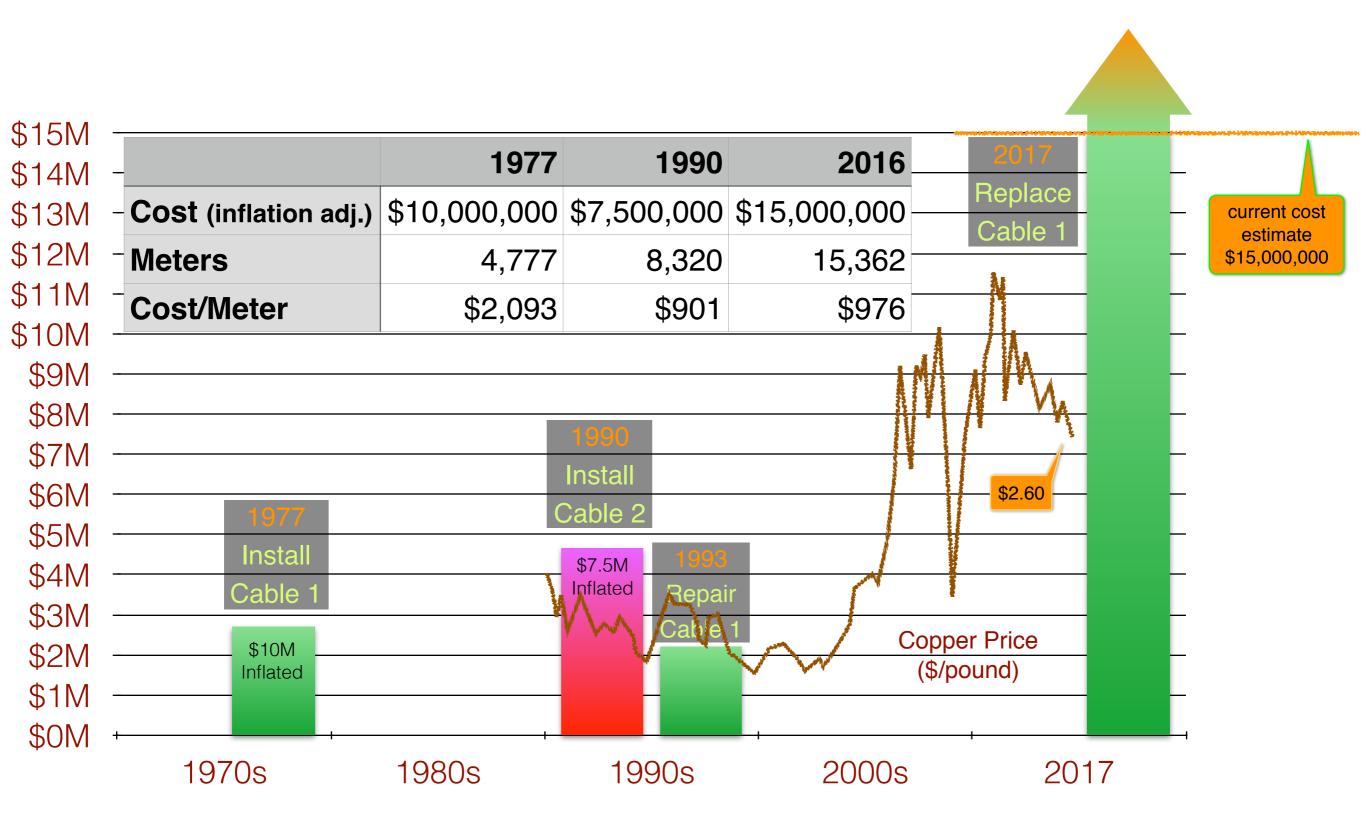
Contractors that requested bid documents:

- Mears group
- Trenchless Construction
- Michels Pipeline Construction

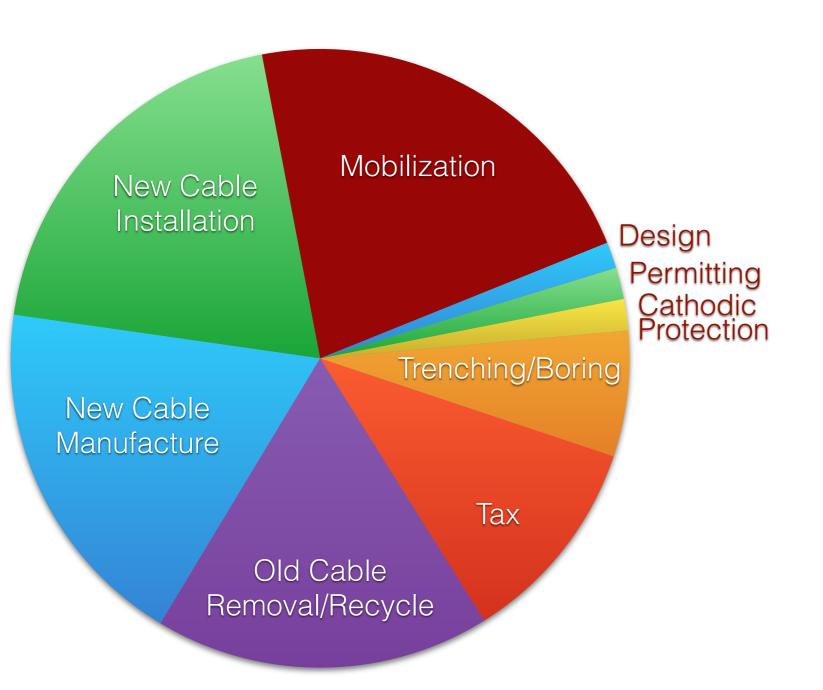
Contractors that submitted bids: (Both Michels and Mears group did not want to deal with the environmental aspects of the job)

• Trenchless Construction

# Lopez - San Juan Submarine Cable Cost



# Cable Project Cost Components



\$15 million project cost

### **Project Stages**

- Design and Planning
- Permitting
- · New Cable Manufacture
  - Made in America
  - 2 year wait
- Trenching and Boring
  - Avoid critical shoreline areas
- Tax
- Mobilization
  - 3 tugs, 2 barges, specialist work crews
- · Old Cable Removal/Disposal
  - CLink to secure their cable
- New Cable Installation
  - up to \$280,000 per day
  - 30 people, fuel, barges, tugs, etc.
- · Cathodic Protection, Connect to Grid