

# Cost breakdown between US & Foreign Flagged Survey Vessels for Offshore Wind

|                                | 220' -260' Foreign Vessel | Monthly Cost        | 165'-200' US Vessel | Monthly Cost       | Comments   |
|--------------------------------|---------------------------|---------------------|---------------------|--------------------|--|
| Harbor Pilot                   | Yes                       | \$18,000            | No                  | \$0.00             | Harbor Pilot cost is actually on the LOW side. This cost is a "Pass Through" expense which the developer ends up paying.   |
| Big Capt Licenses              | Yes                       |                     | No                  |                    | The Larger the Captain License, the higher the pay   |
| Licensed Engineers             | Yes                       |                     | No                  |                    |  |
| Total Marine Crew              | 18                        | \$162,000           | 6                   | \$108,000          | Day Rate \$300 Foreign / \$600 US. NOTE: Day rates are an average. Captains are paid much more than deckhands.   |
| <b>Annual Marine Crew Cost</b> |                           | <b>\$1,944,000</b>  |                     | <b>\$1,296,000</b> | <b>Annual Crew Cost PER VESSEL \$648,000 SAVINGS in Labor Cost which translates into LOWER Vessel Cost</b>   |
|                                | 220' -260' Foreign Vessel | Monthly Cost        | 165'-200' US Vessel | Monthly Cost       | Comments   |
| Total Survey Crew              | 18                        |                     | 18                  |                    |  |
| Total Crew Onboard             | 36                        |                     | 24                  |                    | Everyone onboard has to eat, therefore food costs are important.   |
| Monthly Food                   |                           | \$32,400            |                     | \$21,600           | Food / Provisions cost average \$30 day per person   |
| Monthly Fuel                   | 50,000                    | \$175,000           | 25,000              | \$87,500           | Diesel priced at \$3.50 gal  |
| Vessel Day Rate                | 45,000                    | \$1,350,000         | 10,000              | \$300,000          | Day rates for vessels varies. The amounts come from an average of "Best-Available" data.   |
| # US Jobs                      | 2                         |                     | 20                  |                    | As you can see, there is a HUGE difference of US jobs on US vessels.   |
| # Non-US Jobs                  | 34                        |                     | 4                   |                    | US vessels could EASILY be 100% US jobs with all PSO's being US citizens. Many PSO's come from abroad.   |
| Jones Act Compliant            | No                        |                     | Yes                 |                    | Jones Act compliant vessels can come and go anywhere and do anything in US Waters. Non-US boats cannot.  |
| USCG Inspected                 | No                        |                     | Yes                 |                    | US Vessels do not need to deal with US Customs, and vessels can pull into any dock or port they choose so crew change and supplies are easily accomplished.  |
| # Annual Work Days             | 266                       |                     | 266                 |                    | Based on report: U.S, Jones Act Compliant Offshore Wind Turbine Installation Vessel Study (Link available in this post)  |
| Survey Miles Per Day           | 48                        |                     | 64.2                |                    | Difference is in the time it takes for vessel to turn and go back the other way. ¾ hr vs ¼ hr. <b>THE DIFFERENCE IS SHOCKING!</b> 33.74% more area covered on a daily basis with a US Flagged vessel. That's 10 FREE Days per month! |
| Survey Miles Per Year          | 12,768                    |                     | 17,077.2            |                    |  |
| Avg. Cost Per Survey Mile      | <b>\$1,185</b>            |                     | <b>\$218</b>        |                    | <b>This cost DOES NOT INCLUDE Survey Crew or data collection. This is vessel cost only.</b>  |
| Annual Vessel Cost             |                           | <b>\$15,123,840</b> |                     | <b>\$3,722,810</b> | <b>\$11,401,030 Annual SAVINGS Per Vessel</b>  |

| Month                | # Days in Month | Down Time Due To Weather | # Weather Days | Monthly Work Days |
|----------------------|-----------------|--------------------------|----------------|-------------------|
| January              | 31              | 40%                      | 12             | 19                |
| February             | 28              | 40%                      | 11             | 17                |
| March                | 31              | 35%                      | 11             | 20                |
| April                | 30              | 25%                      | 8              | 22                |
| May                  | 31              | 15%                      | 5              | 26                |
| June                 | 30              | 15%                      | 5              | 25                |
| July                 | 31              | 15%                      | 5              | 26                |
| August               | 31              | 15%                      | 5              | 26                |
| September            | 30              | 15%                      | 5              | 25                |
| October              | 31              | 15%                      | 5              | 26                |
| November             | 30              | 35%                      | 11             | 19                |
| December             | 31              | 50%                      | 16             | 15                |
| <b>ANNUAL TOTALS</b> |                 |                          | <b>99</b>      | <b>266</b>        |