



# Various Industrial Construction Facility Benchmarks:

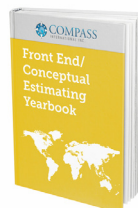
The following construction benchmarks are provided by Compass International as a reference source for Construction Professionals involved in producing or validating industrial type CAPEX estimates, such as Power Plants, Refineries and other Industrial facilities: This data has been collected, analyzed and conditioned from Compass International's historical cost library.

#	Description	Cost Range / Multiplier
1	<b>Major Equipment (M.E.) multiplier, to determine facility cost multiply (M.E.) purchase cost by indicated multiplier to determine overall facility cost.</b>	3.0 – 5.0 (Could be 5.0 – 7.0 for remote plants and facilities using a high percentage of Stainless Steel and other exotic metals)
2	<b>Bio-Diesel Facility – Construction Cost - (Total Facility based on production capacity) – Flax, palm oil, sunflower and soybean.</b>	\$0.90 - \$1.40 per gallon Average \$1.15 per gallon
3	<b>Steel Mill – Construction Cost - (Total Facility based on production capacity).</b>	\$550 - \$700 Ton Average Cost \$625 / Ton
4	<b>Refinery (Oil) – Construction Cost - (Total Facility based on production capacity) – 50,000 BBL – 250,000 BBL / day.</b>	\$20,000 - \$50,000 per BBL Average Cost \$35,000 per BBL
5	<b>Ethanol Plant – Construction Cost - (Total Facility based on production capacity).</b>	\$1.60 - \$1.75 per gallon for a 25 million gallon a year plant. \$1.50 - \$1.65 per gallon for a 50 million gallon a year plant. \$1.40 - \$1.55 per gallon for a 100 million gallon a year plant.
6	<b>Cement Plant – Construction Cost - (Total Facility based on production capacity).</b>	\$225 - \$335 Ton Average Cost \$280 / Ton
7	<b>Alumina Facility.</b>	Facility cost per pound / kg of production \$0.60 - \$0.65 per pound \$0.27 - \$0.30 per kg of production. Excludes OSBL work typically an additional 10% - 30% of facility cost
8	<b>Combined Cycle Power Plant (Gas) – Construction Cost.</b>	Total Facility based on production capacity \$820 - \$1,200 per kW
9	<b>Simple Cycle Power Plant (Gas) – Construction Cost.</b>	Total Facility based on production capacity \$800 - \$1,100 per kW
10	<b>Freight (USA in country).</b>	3% - 5% of M.E. / Bulk material cost
11	<b>Ocean Freight.</b>	5% - 10% of M.E. / Bulk material cost
12	<b>Cost of temp facilities per direct field construction hour on North American projects.</b>	\$0.45 - \$0.70
13	<b>Consumables cost per direct field man-hour specific to North American projects.</b>	\$2.65 – \$5.75
14	<b>Small tools cost per direct field man-hour specific to North American projects.</b>	\$0.75 - \$1.95
15	<b>Construction equipment cost per direct field man-hour specific to North American projects.</b>	\$5.75 - \$10.85

For additional benchmarks and similar types of construction cost refer to refer to our 2017 Front End / Conceptual Estimating Yearbook:

If you have any questions or comments on this report please contact:

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