

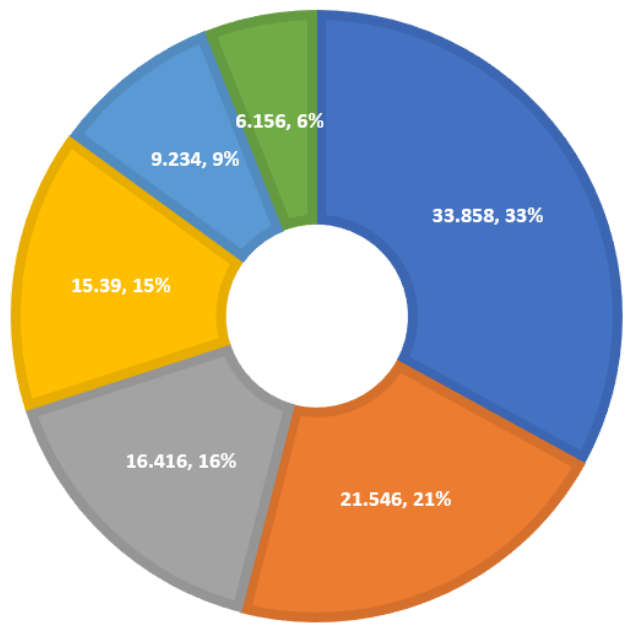


IMPLEMENTATION PLAN FOR BARBADOS NATIONAL ENERGY POLICY

Barbados Ministry of Energy
and Water Resources

2015 ELECTRICITY USAGE (MW)

- households
- commercial
- public sector
- hotels
- industrial
- other

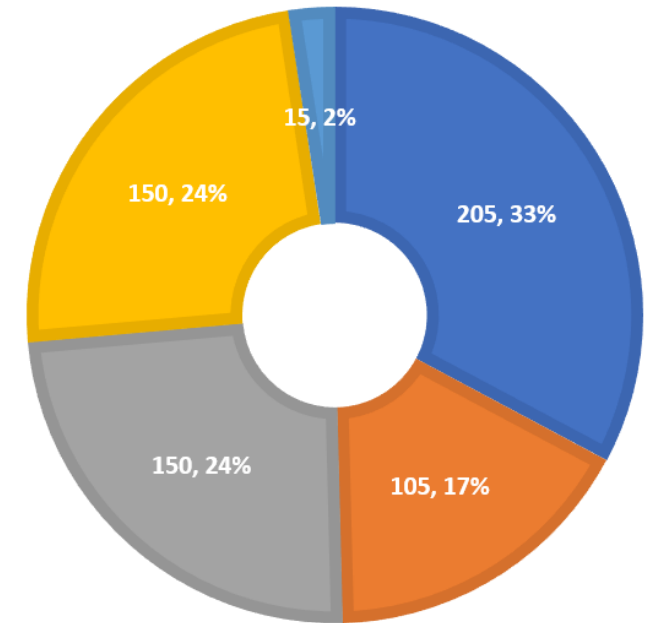
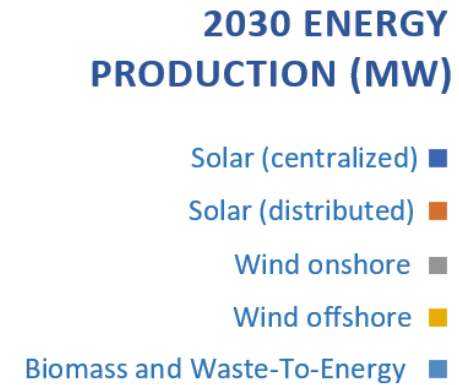
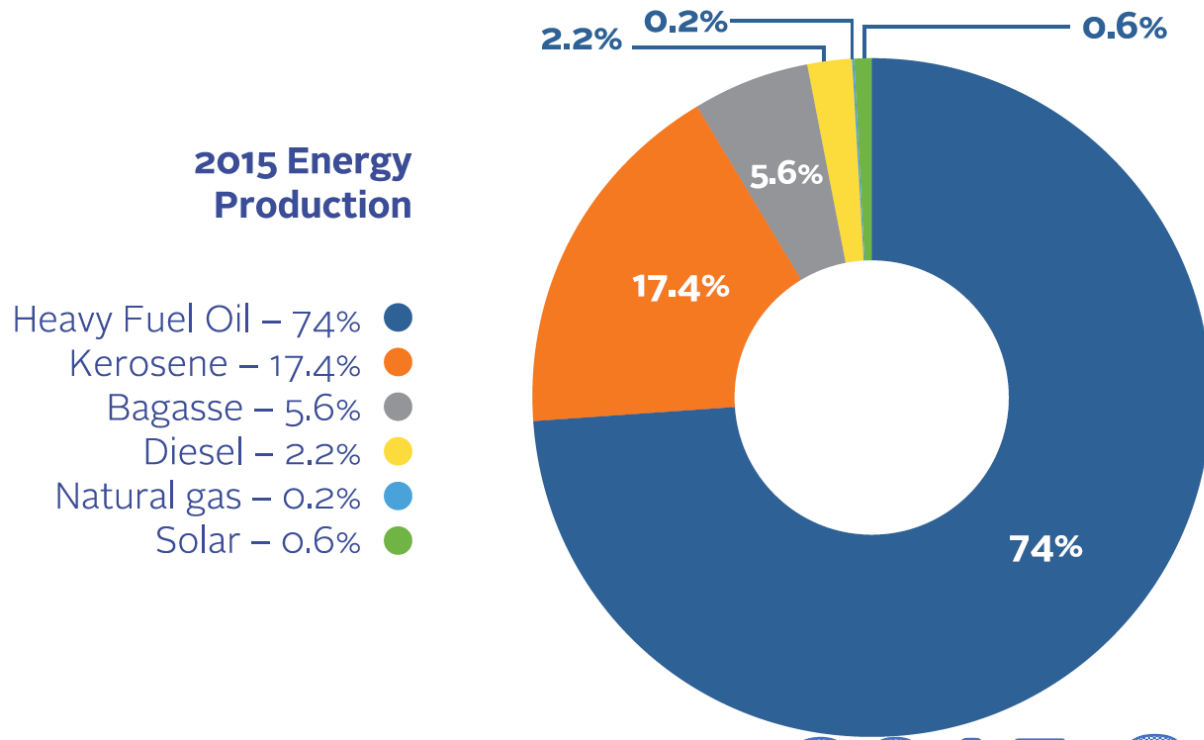


2015 & 2030 Demand



IMPLEMENTATION PLAN FOR BARBADOS NATIONAL ENERGY POLICY

Barbados Ministry of Energy
and Water Resources



2015 & 2030 Production

| | | | | | | |
|--|----|----|----|-----|----|-------|
| | 1 | 2 | 3 | 4 | 5 | Total |
| PV | 32 | 32 | 32 | 32 | 32 | 160 |
| Wind | | | | 120 | | 120 |
| Bio-Energy | | | | | 15 | 15 |
| Total forecasted renewable energy requirement (MW) | | | | | | 295 |
| Energy Storage (MW) | | 20 | 20 | 20 | 20 | 80 |

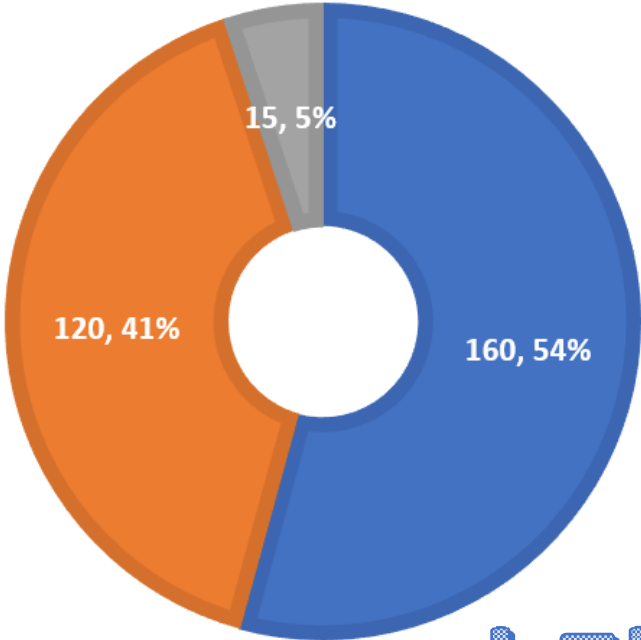
Table 2A - Schedule of Installation of Renewable Energy Over the Next 5 Years (MW)

| | 1 | 2 | 3 | 4 | 5 | Total |
|------------|-------|-------|-------|--------|--------|--------|
| PV | 52.48 | 52.48 | 52.48 | 52.48 | 52.48 | 262.4 |
| Wind | 0 | 0 | 0 | 315.6 | 0 | 315.6 |
| Bio-Energy | 0 | 0 | 0 | 0 | 109.65 | 109.65 |
| Total | 52.48 | 52.48 | 52.48 | 368.08 | 162.13 | 687.65 |

Table 3A - Schedule Electricity Production (Gwh) From Renewable Energy Over the Next 5 Years

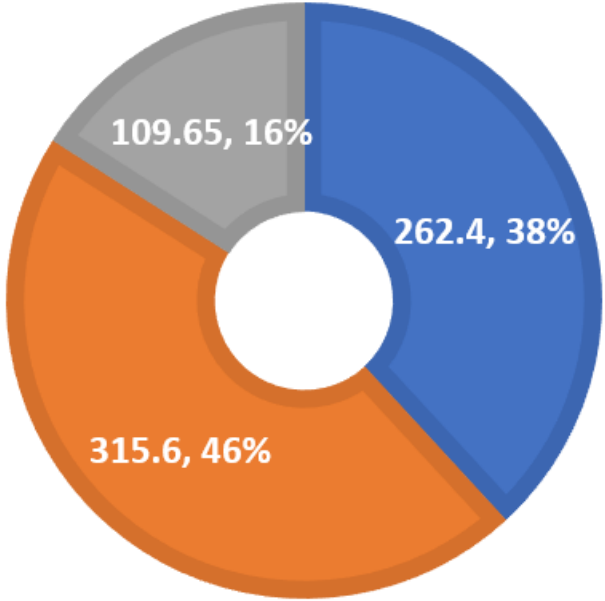
2024 ENERGY
PRODUCTION (MW)

PV ■
Wind ■
Bio-Energy ■



2024 ELECTRIC
PRODUCTION

PV ■
Wind ■
Bio-Energy ■



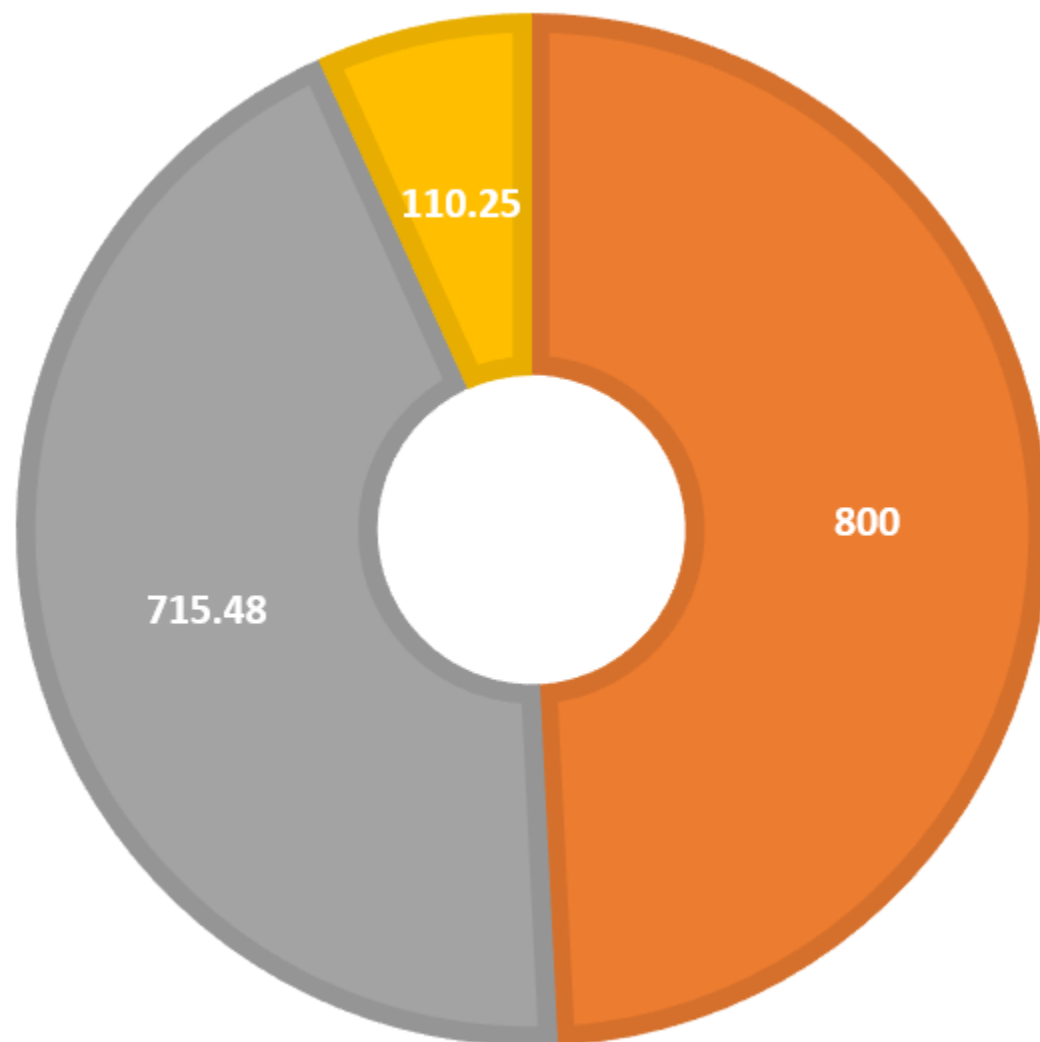
2024 Energy and Electricity Production

| | 1 | 2 | 3 | 4 | 5 | Total |
|---------------------|----------|----------|----------|------------|----------|------------|
| PV | \$160.00 | \$160.00 | \$160.00 | \$160.00 | \$160.00 | \$800.00 |
| Wind | \$- | \$- | \$- | \$715.48 | \$- | \$715.48 |
| Biomass | \$- | \$- | \$- | \$- | \$110.25 | \$110.25 |
| Sub-Total | | | | | | \$1,625.73 |
| Energy Storage (MW) | | \$162.60 | \$162.60 | \$162.60 | \$162.60 | \$650.40 |
| Total | \$160.00 | \$322.60 | \$322.60 | \$1,038.08 | \$432.85 | \$2,276.13 |

Table 4A - Schedule of Investment In Renewable Over the Next 5 Years (\$M)

2024 RE INVESTMENT \$M

PV ■
Wind ■
Biomass ■



| | 1 | 2 | 3 | 4 | 5 | Total |
|------------|-------|-------|-------|-------|-------|--------|
| PV | 63.36 | 63.36 | 63.36 | 63.36 | 63.36 | 316.80 |
| Wind | 0 | 0 | 0 | 33 | 0 | 33 |
| Bio-Energy | 0 | 0 | 0 | 0 | 0.92 | 0.92 |
| Total | 63.36 | 63.36 | 63.36 | 96.36 | 64.28 | 350.72 |

NB: It is assumed that wind developments are set back by the international distance rules i.e. impact distance from the base of the Turbine

Table 5A - Spatial Requirements for Electricity Generation (Acres)