

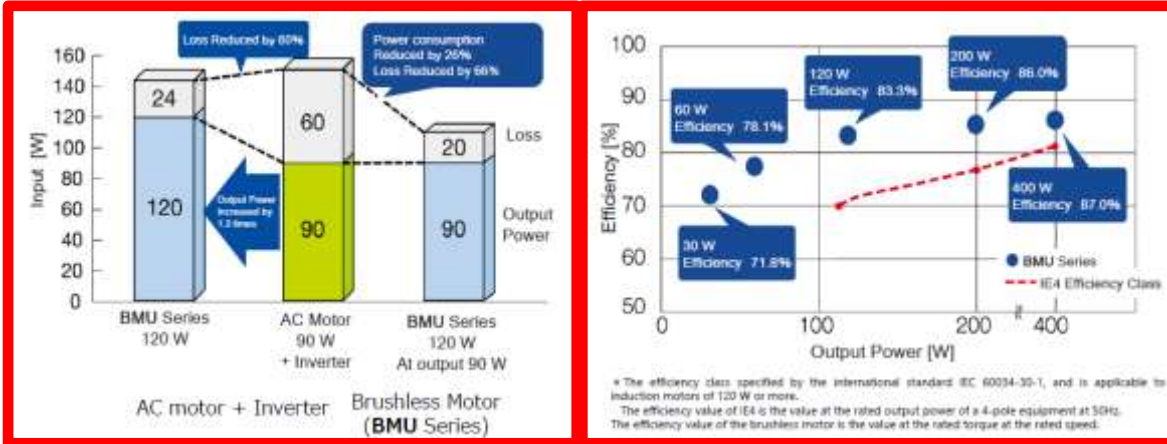
## How to reach Carbon Neutral?

As carbon neutrality becomes prevalent around the world, ORIENTAL MOTOR does that through our products and technologies that help the environment..



The Brushless Motor is highly efficient **ecofriendly motor** which contributes to reducing power consumption

Reduces the power consumption High-efficiency motor equivalent to IE4\*



## Energy-saving effect in Belt Conveyor

Selection conditions	
Gear shaft torque	4 N·m
Gear shaft speed	100 r/min

Products that meet the conditions above.

	AC Motor (+ Inverter)	Brushless Motor
Rated output power	90 W	120 W
Gear ratio	12.5	20
Motor speed	1,250 r/min	2,000 r/min
Load factor	77%	49%
Overall efficiency	60%	77%

Operating Conditions (Conveyor)	
Number of motor	1 pc
Operation days per year	300 days 12 hrs/day
Electricity rate coefficient (INR/kWh)	15
CO2 emissions coefficient (kg/kWh)	0.519

	AC motor + Inverter	Brushless Motor
Power consumption	96 W	61 W
Annual power consumption (kWh/year)	344 kWh	219 kWh
Annual electricity cost	INR 3,400	INR 2,100
Annual CO2 emissions	179 kg	114 kg

Power Consumption  
Reduced by **36.3%** per year!

CO2 emissions  
is reduced by approx.  
**65 kg** per year!

## Dimension Beneficial

### Round Shaft Type

Motor length: reduced by **63%**  
Mass: Reduced by **66%**

Length: 135 mm ⇒ 50.4 mm  
Mass: 3.2 kg ⇒ 1.1 kg

### Geared Type

Motor length: reduced by **52%**  
Mass: Reduced by **55%**

Length: 200 mm ⇒ 95.4 mm  
Mass: 4.7 kg ⇒ 2.1 kg

## Application Examples

Conveyor of loads with different weight

2-axis conveyor with same speed setting

Agitators/pumps/dispensers

Bottle Capping

**For more information please contact:**

**Toll Free No:** 1800 121 4149 (North India),  
1800 257 0014 (West India) &  
1800 120 1995 (South India & Others)

**WhatsApp No:** 09606777006 or Email: [sales@orientalmotor.co.in](mailto:sales@orientalmotor.co.in)