Rajat is passionate about empowering enterprises to do better with less and work towards sustainable growth. He is co-founder and technical lead at STENUM Asia in training, consultancy, audit and implementation support for enterprises. He has been actively practicing Resource Efficient Cleaner Production at various levels for over a decade having undergone extensive training on sustainable development in Europe. He is also developing strategies for enterprises to make a transition towards the circular economy. With over 20 years of experience managing manufacturing operations, also as an entrepreneur, he brings to his consulting work, a deep understanding of the issues and challenges businesses face.

Regional experience in sustainable energy



Rajat Batra CEO STENUM Asia (SUSTENT Group)













Total primary energy supply (by source) Sri Lanka

















Levelised Cost of Electricity Resources



Saving energy is cheaper than generating energy!

*Notes: Energy Efficiency program portfolio data from Molina 2014; All other data from Lazard 2017. High-end range of coal includes 90% carbon capture and compression.



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SUSTENT



METABUILD project - results related to sustainable energy

	Nepal	Sri Lanka	Bangladesh
Energy consumption reduction through implemented actions (measure level)	39%	23%	25%
Energy consumption reduction per annum (in kWh)	1,06,32,728	99,88,869	76,73,511
Cost savings through energy savings per annum (in €)	3,72,980	2,73,190	4,84,154
CO ₂ emissions reduced per annum (t)	3,997	3,164	2,519
Energy saving measures implemented (nos.)	262	269	825





Machinery modifications at a steel industry in Sri Lanka



- Ball bearings are introduced in a 600 kW motor instead of fibre based bearings. Thereby reducing the electrical load by ~50%
- Annual savings: 399,840 kWh of electricity
- Payback period: 3 months

Improving insulation at a galvanising unit in Sri Lanka



- Top surface of molten Zinc bath has been covered using a glass wool mounted steel frame
- Heat energy loss has been reduced significantly while making it easier for workers as well
- Annual savings: 8,179 l fuel
- Payback: 1 month

Motor replacement at a wire drawing unit in Nepal



- High Energy Efficiency grade motors are being installed in place of old motors in phased manner.
- In first phase, 45 out of 400 motors have been replaced
- Annual savings: 205,518 kWh electricity
- Payback period: 8 months









Solar PV rooftop plant at a cable manufacturing unit in Sri Lanka



- A 104 kW_p roof top Solar Photo Voltaic system is installed. Excess electricity produced is sold to the national grid
- Annual savings: 152,000 kWh of electricity
- Payback period: 54 months

FORBES

MAS

Biomass boiler at Vinh Phuc province, Vietnam



- Biomass gasifier replaced a coalfired boiler
- Uses biomass pellet as fuel. The new boiler system retains its steam output: 0.5 t/h at max. 8 kg/cm2
- Operating cost 15~30% cheaper than coal

Concentrated Parabolic Collector at knitwear unit at Tirpur, India



- Producing steam for ironing to supplement existing steam boiler
- Diesel boiler: 71,500 kWh of fuel saved
- Payback period: less than 3 years



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SUSTENT Consulting Pvt. Ltd.

Helping enterprises become more Resource Efficient



