

Low Carbon Manufacturing Programme

The Best 20 Energy Conservation Measures



	Annual Energy Cost Saving (RMB)	Investment (RMB)	Payback (Year)
Diesel and Solar System			
● Conduct proper maintenance	60,000-70,000	< 10,000	Immediate
Compressed Air System			
● Raise awareness of all system users on the proper use of compressed air	40,000-50,000	< 10,000	Immediate
● Implement a leakage reporting and repair program	N/A	< 10,000	Immediate
● Use of high-efficiency motors instead of normal motors	30,000-40,000	10,000-99,999	1.0
● Install Variable Speed Drive (VSD) control	30,000-40,000	10,000-99,999	1.0
● Optimize the control of multiple compressors	30,000-40,000	10,000-99,999	1.0
● Install heat recovery measures where appropriate	100,000-120,000	> 200,000	1.7
Lighting System			
● Use natural light to reduce the need for lighting	70,000-80,000	< 10,000	Immediate
● Implement good management policy of lighting systems	30,000-40,000	< 10,000	Immediate
● Redesign the lighting system	30,000-40,000	10,000-99,999	0.5
● Use high-efficiency lighting equipment	120,000-130,000	> 200,000	2.6
HVAC System			
● Increase temperature setting of HVAC system by 1-2°C	50,000-60,000	< 10,000	Immediate
● Ensure refrigerant pipes are properly insulated	15,000-20,000	< 10,000	Immediate
● Clean filters	10,000-20,000	< 10,000	Immediate
● Use scale control for condensing water	90,000-110,000	10,000-99,999	0.1
● Use solar shading devices	190,000-200,000	100,000-199,999	0.8
● Retrofit chiller plant	90,000-100,000	100,000-199,999	2.0
Production Machines			
● Reduce idle and standby time	225,000-235,000	< 10,000	Immediate
● Install VSD control on motors	735,000-745,000	> 200,000	1.0
● Replace standard motors with energy efficient motors	440,000-450,000	> 200,000	3.2

LCMP - A comprehensive carbon accounting and labeling system

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