WSSO 标准项目建议书

名称	WSSO 平板玻璃生产节能降碳技术要求		
文档类型	标准		
制定/修订	■ 制定 ☐ 修订	修订的标准号	
采用标准	新标准	采用的标准号	
分类	☐ 公司可持续发展 ☐ 碳市场与减排 ☐ 保证与认证 ☐ 工业应用 ■ 技术与数据管理 ☐ 政策与法规遵从性 ☐ 其他 _____		
标准号	WSSO SP-2025-13		
工作小组	由 WSSO 标准委员会		
提出实体	建筑材料工业技术情报研究所 生态环境部环境标准研究所		
工作组主席信息	经审核，同意提议实体		
联系信息	名称: 吴端静	职位: 副总工程师	
	电子邮件: wuduanjing@126.com	电话: 13701141788	
	其他:		
技术委员会	WSSO 标准委员会		
预期参与实体			
项目时间表	☐ 12 个月 ■ 18 个月 ☐ 24 个月		
目的 （300 字以上）	《WSSO 平板玻璃生产节能降碳技术要求》将规范玻璃制造业的能源利用效率提升路径与废气治理技术，推动行业向低碳化、清洁化转型。通过推广先进技术，如余热回收、电熔窑炉替代燃气窑炉等，玻璃制造企业可以显著降低能耗和排放。研究表明，采用这些技术后，能耗可降低 15%-30%，大气污染物排放可减少 40%以上。例如，中国某大型玻璃企业通过余热回收技术，每年减少二氧化碳排放约 10 万吨，相当于种植了 50 万棵树的环境效益。		
范围	技术层面：覆盖玻璃制造企业的能源利用效率提升与废气治理全流程技术规范，包括余热回收、电熔窑炉替代燃气窑炉等核心技术参数。 管理层面：规定玻璃制造企业的能源消耗、废气排放、数据追溯等管理要求。 对象范围：适用于建筑玻璃、汽车玻璃、电子玻璃等各类玻璃制造企业。 区域适配：既包含发达国家精细化技术方案，也涵盖发展中国家低成本资源化路径。		

相关文件/标准/指引/最佳实践	ISO 50001《能源管理体系》 欧盟《工业排放指令》 美国《清洁空气法》		
与该准则相关的国际地位声明	该标准作为全球首个系统性整合玻璃制造企业能效提升与废气治理技术的国际要求，填补了发展中国家在循环经济路径标准化领域的空白，通过对接欧盟《工业排放指令》、ISO 50001 能源管理体系及美国《清洁空气法》等国际标准，确立了其在全球玻璃制造业能效提升与废气治理领域的权威地位。		
专利涉及	☐ 是 ■ 否	**专利名称/编号**	
备注	无		
标准委员会意见	*由 WSSO 标准委员会审核*		
WSSO 结论	*经 WSSO 董事会批准*		
注意：标准结构必须与提案一起提交			

WSSO Standard Project Proposal

Proposed Name	WSSO Technical Requirements for Energy Saving and Carbon Reduction in Flat Glass Production		
Document Type	Standard		
Formulation/Revision	■ Formulation ☐ Revision	No. of Revised Standard	
Standard Adoption	New Standard	No. of adopted Standard	
Classification	☐ Corporate Sustainability ☐ Carbon Market & Emission Reduction ☐ Assurance & Certification ☐ Industry Applications ■ Technology & Data Management ☐ Policy & Regulatory Compliance ☐ Others _____		
Standard No.	WSSO SP-2025-13		
Working Group	Appointed by WSSO Standard Committee		
Proposed Entity	Institute of Technical Information for Building Materials Industry Environmental Standard Institute		
Working Group Chair Information	Appointed by the proposing entity after review		
Contact Information	Name: Duanjing Wu	Position: Deputy Chief Engineer	
	Email: wuduanjing@126.com	Tel.:13701141788	
	Others:		
Technical Committee	WSSO Standards Committee		
Expected Participate Entities			
Project timeline	☐ 12 months ■ 18 months ☐ 24 months		
Purpose (More than 300 words)	The WSSO Technical Requirements for Energy Saving and Carbon Reduction in Flat Glass Production will standardize the energy efficiency improvement path and waste gas treatment technology of the glass manufacturing industry and promote the industry's transformation to a low-carbon and clean one. By promoting advanced technologies such as		

	waste heat recovery and electric-powered melting furnaces replacing gas-fired furnaces, glass manufacturing companies can significantly reduce energy consumption and emissions. Studies have shown that after adopting these technologies, energy consumption can be reduced by 15%-30%, and atmospheric pollutant emissions can be reduced by more than 40%. For example, a large Chinese glass company reduces carbon dioxide emissions by about 100,000 tons per year through waste heat recovery technology, which is equivalent to the environmental benefit of planting 500,000 trees.		
Scope	• *Technical level: it covers the technical specifications for the entire* process of improving energy efficiency and waste gas treatment of glass manufacturing enterprises, including core technical parameters such as waste heat recovery and electric melting furnaces replacing gas furnaces. • Management level: it stipulates management requirements such as energy consumption, waste gas emissions, and data traceability of glass manufacturing enterprises. • Scope of objects: it is applicable to various glass manufacturing enterprises such as architectural glass, automotive glass, and electronic glass. • Regional adaptation: it includes both refined technical solutions in developed countries and low-cost resource utilization paths in developing countries.		
Relevant Document/ Standard/Guideline/Best Practice	• ISO 50001 Energy Management System • EU Industrial Emissions Directive • US Clean Air Act		
Statement of International Status Related with the Standard	As the world's first international requirements that systematically integrates energy efficiency improvement and waste gas treatment technologies for glass manufacturers, this standard fills the gap in the standardization of circular economy paths in developing countries. By connecting with international standards such as the EU Industrial Emissions Directive, ISO 50001 Energy Management System and the US Clean Air Act, it has established its authoritative position in the field of energy efficiency improvement and waste gas treatment in the global glass manufacturing industry.		
Patent Involved	☐ Yes ■ No	**Patent Name/No.**	

Notes	No
Standard Committee Comments	*Review by WSSO Standard Committee*
WSSO Conclusion	*Approve by WSSO Board*
Note: Standard structure must be submitted together with the Proposal	