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钢研氢冶金 investing 660m RMB into green electricity -> hydrogen -> metallurgy project

producing 250kt of casting & forging/yr using direct reduction casting tech.

中国钢研 building world's 1st green H2 vertical furnace industrial demonstration project in Songyuan, Jilin Province

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3



5



70



4.1K



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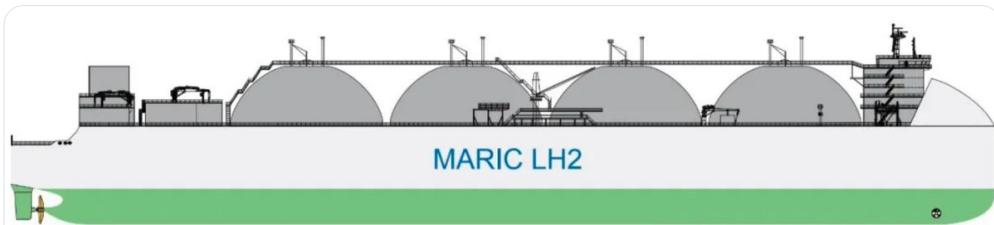
Mingyang has new 200kt green methanol project in Henan that will produce 200kt of circulating oil/lubricant using 700kW of wind power. MY has 500kt to 1mt of green methanol projects in 6 Henan cities to replace fossil fuel in shipping fuel, fertilizers, chemical & more.

Very

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It goes beyond just the production of these chemicals, it's also building the transport mechanism around them from Liquid H2 carriers, VL ammonia carriers, Liquid CO2 carriers + CCUS system that capture CO2 from dual fuel ships. Also building the largest fleet of dual fuel ships



此外，为了应对氢能大规模跨境运输的需求，第七〇八研究所研发一型180000立方级液氢运输船，为了尽可能减少热交换，该船采用表面积体积比最小的双层球罐方案，两层球壳之间抽成真空并进行绝缘填充，蒸发率不超过0.1%，单个球罐容积为45000m<sup>3</sup>。该船型总长约为315米，船宽为54米。本船计划采用柴油推进，设计航速为18节，主燃料为MGO，燃油舱布置在船首部区域，与此同时也可应需求选择LNG作为燃料推进。机舱内配置质子交换膜型燃料电池，蒸发氢用于燃料电池发电给船舶供电。货物机械处所布置在机舱上方，内部布置再液化和压缩机等液货设备，GCU布置在烟囱。为了适当增加吃水深度，本船采用V型船体，设计吃水为10米，压载吃水不小于9米。为满足视线要求，生活楼布置在船首，并在船首布置挡风罩降低航行风阻并减少恶劣工况中砸击上浪对生活区域产生影响。





This includes LNG dual fuel iCER engine, medium speed, low speed & different sized engines.

Methanol dual fuel low & medium engines of different sizes + fuel supply system.

+ Biodiesel marine engines.

+ ports that refuel



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3/29-30th, Shanghai Yangshan Port refueled Korean ship HMM Green in its automated pier w/ 2902t green methanol + 1532 TEU containers. 1st time an internationally operated ship bunkered Chinese produced green methanol.

A step in Shanghai becoming the global green fuel refueling [Show more](#)



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This past wk out of Chinese shipyards.  
Dalian built LNG dual fuel 16000 TEU container ship started sea trials for delivery to MSC  
JN launched another batch of LNG ships, large container ships, VLXC & VLEC.  
Inland shipyard building 6 LNG fuel 1138 TEU container ships  
Adoption of



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See Diagram below for where majority of methanol is produced (Northeast + Inner Mongolia) & where they are consumed.

Coastal provinces where the petrochemical bases are & where the ports are.

Domestic usage + export + refueling dual fuel ships