





㈜ 제아이엔지

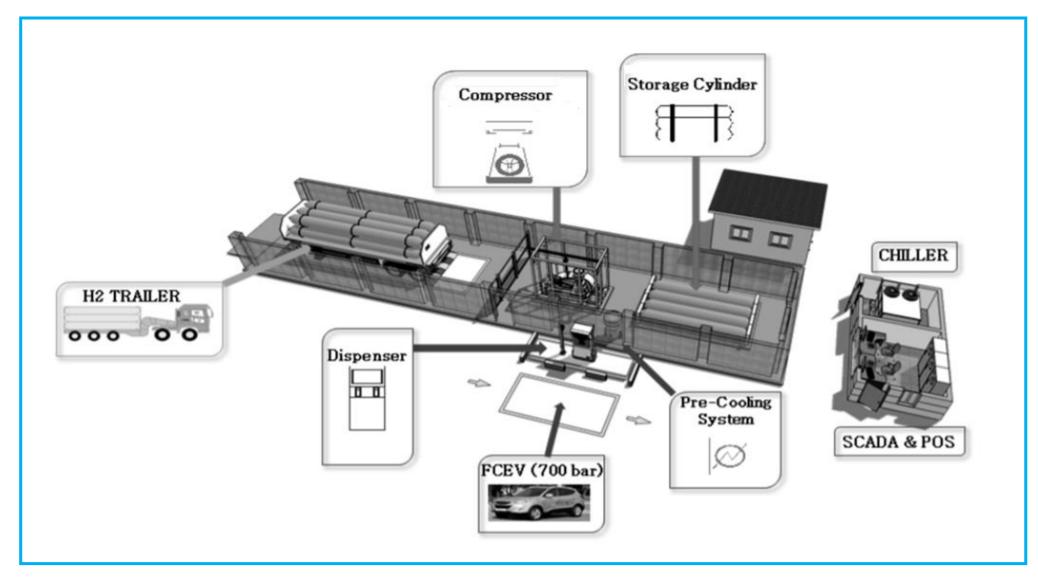
민 정기(이사)







수소충전소 일반 구성도



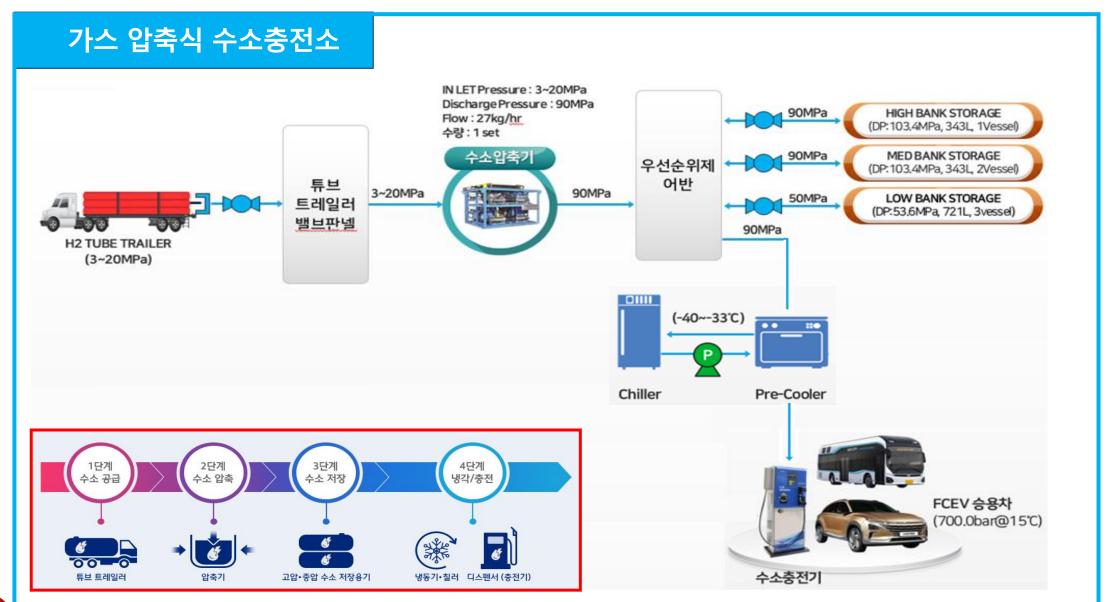


수소충전소 주요 장비





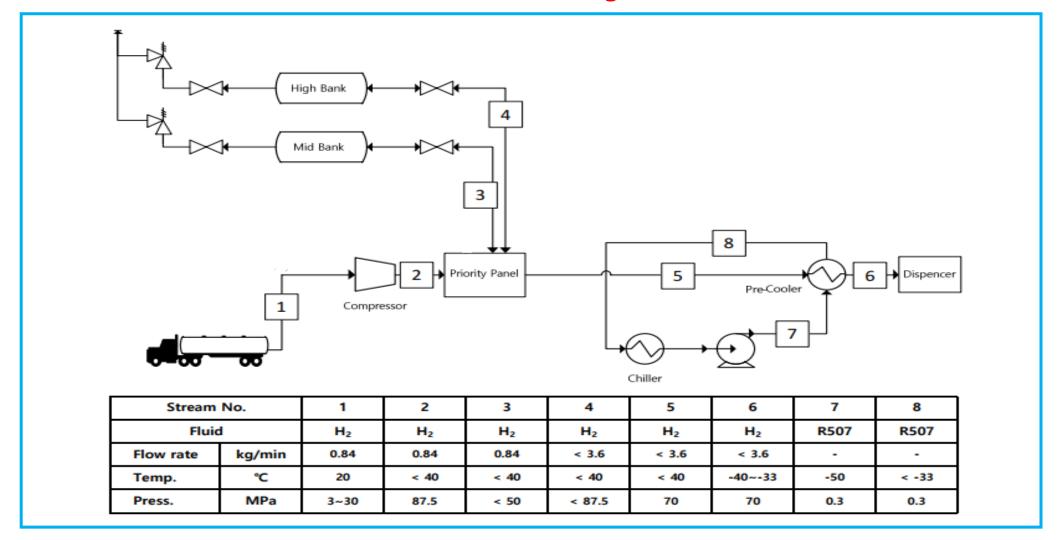
수소충전소 충전 흐름도





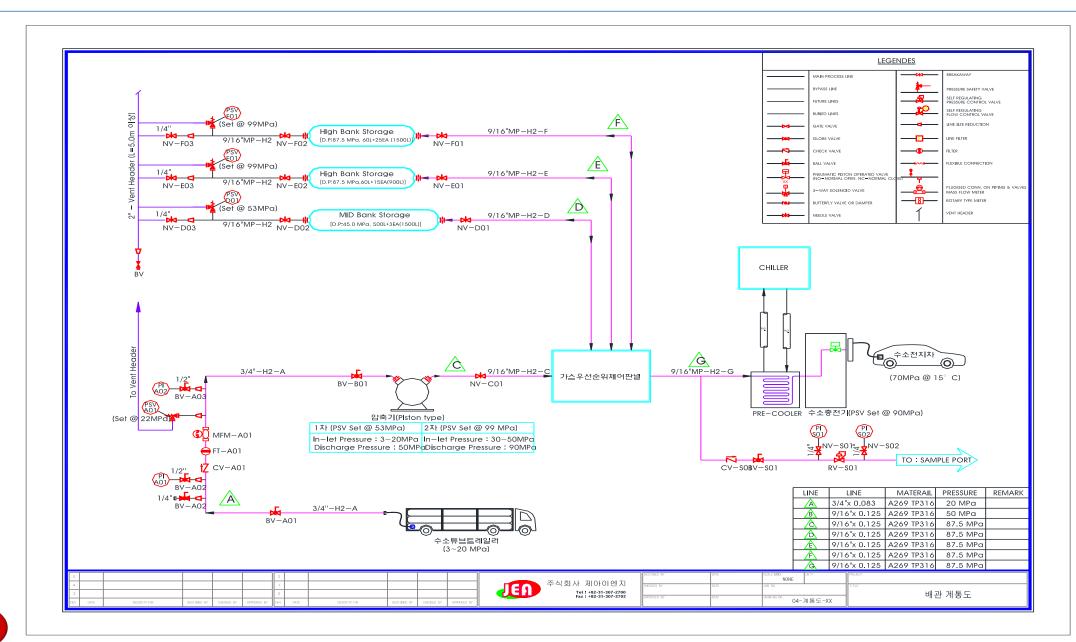
수소충전소 PFD 소개

< Process Flow Diagram >



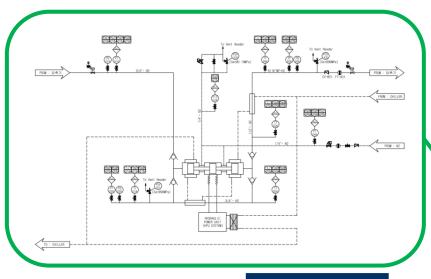


수소충전소 P&ID

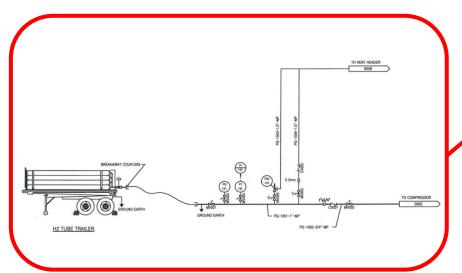


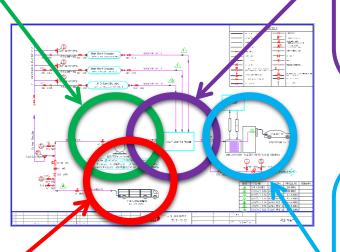


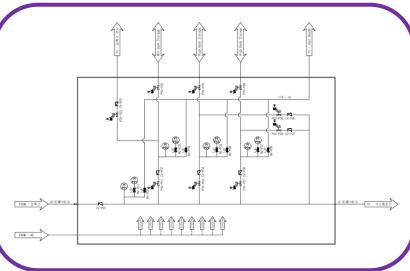
수소충전소 상세 P&ID



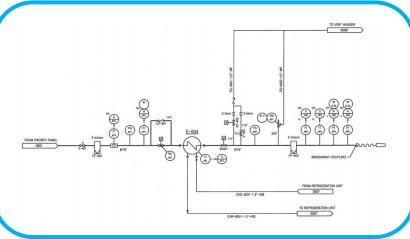
Compressor







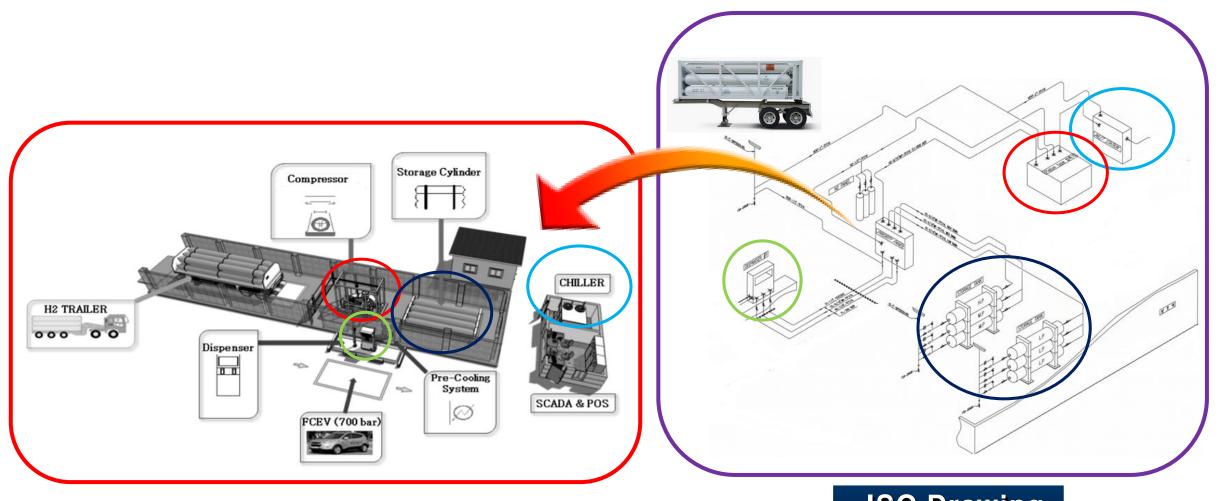
P/Panel



P/Panel → Dispenser



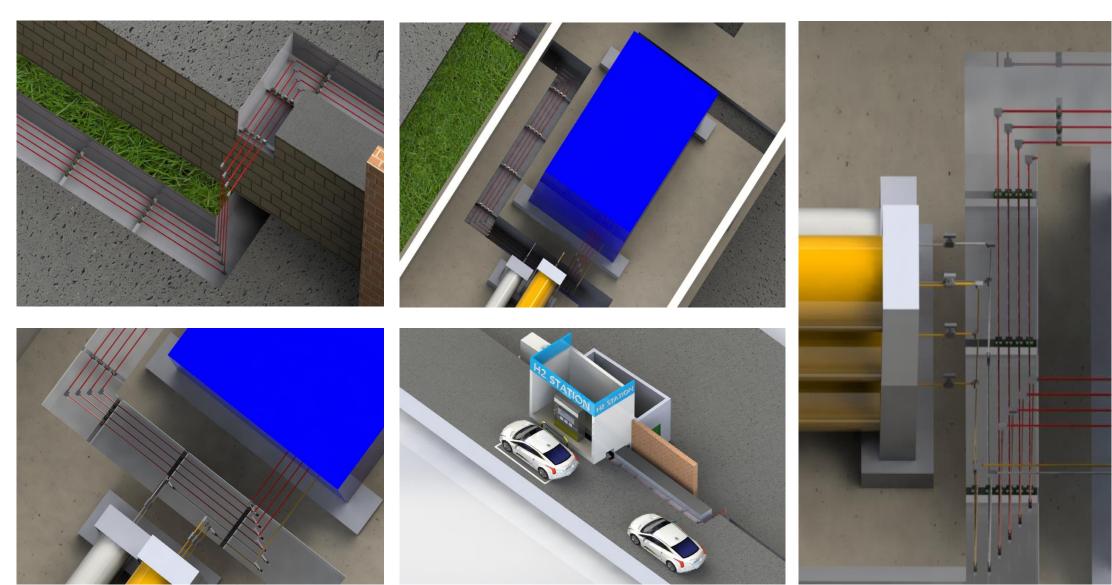
ISO 도면 작성(예시)





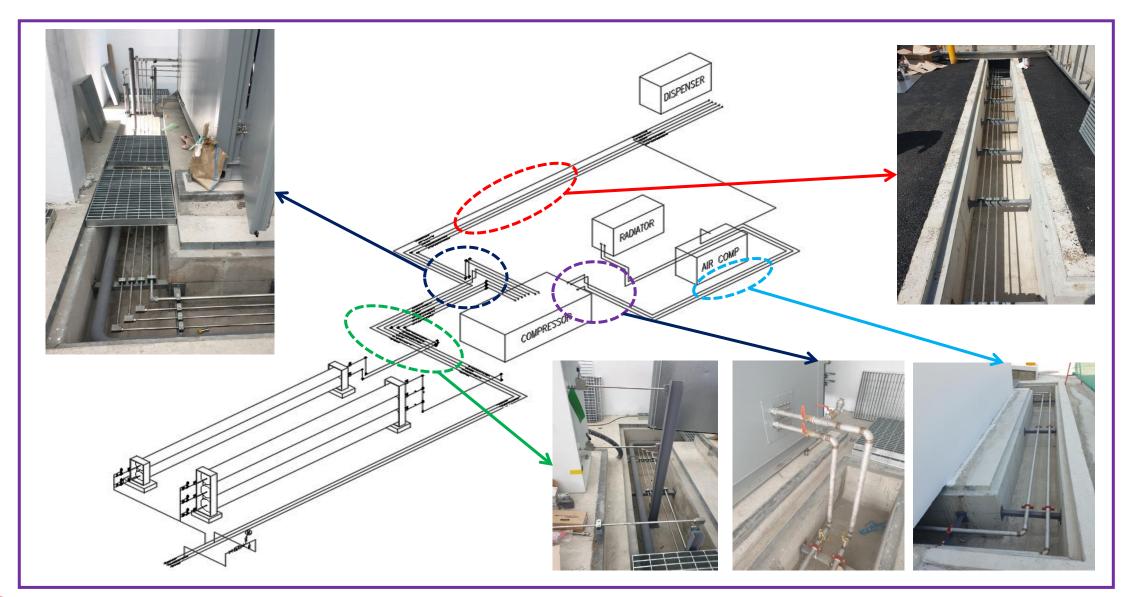


수소충전소 설비공사 3D





수소충전소 시공 현장(예시)





장비반입 현장 설치 공사













Coning & Threading Tool Machine

수소 충전소를 위한 전용 TOOL MACHINE

Maxpro Technologies
Coning and Threading Machine

Efficient, single ended operation makes the

MAXPRO TECHNOLOGIES CONING AND THREADING MACHINE

the NEW 'state of the art" technology.









설비 주요 부품류

Valves & Fittings for Ultra High-Pressure Hydrogen Gas









Korea-Japan



Germany



USA



USA





국내 수소충전소용 압축기 공급업체



USA













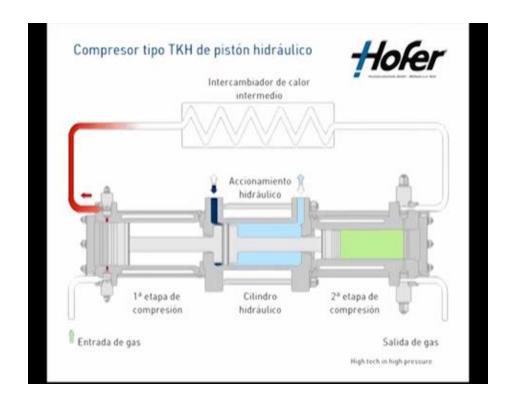








수소충전소 압축기별 특성





피스톤 방식

다이어프램 방식



국내 수소충전소용 디스펜서 공급사























국내 수소충전소용 냉동기 공급업체











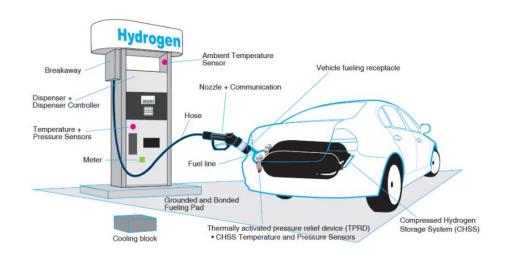


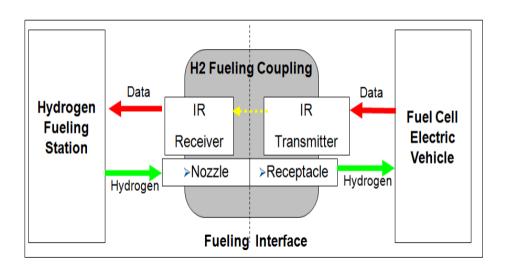




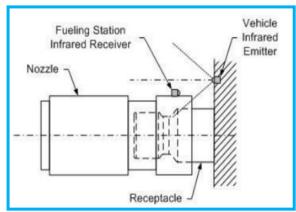


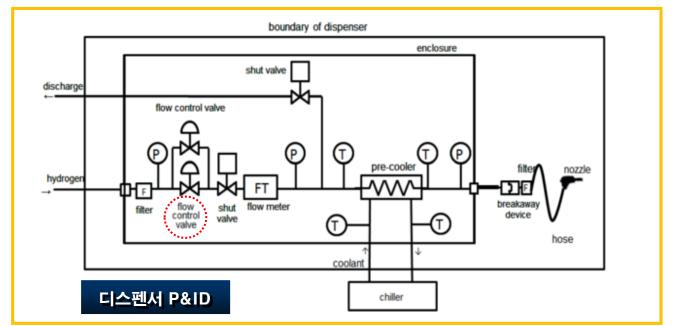
충전 프로토콜(SAE J2601 & SAE J2799)





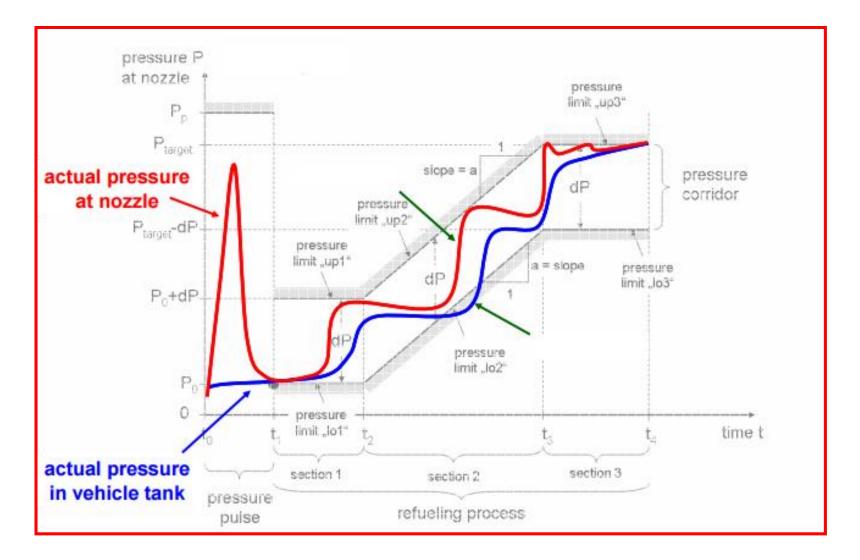




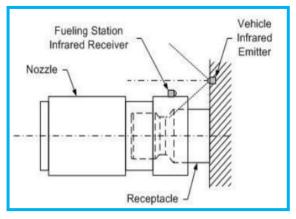




충전 프로토콜(SAE J2601 & SAE J2799)

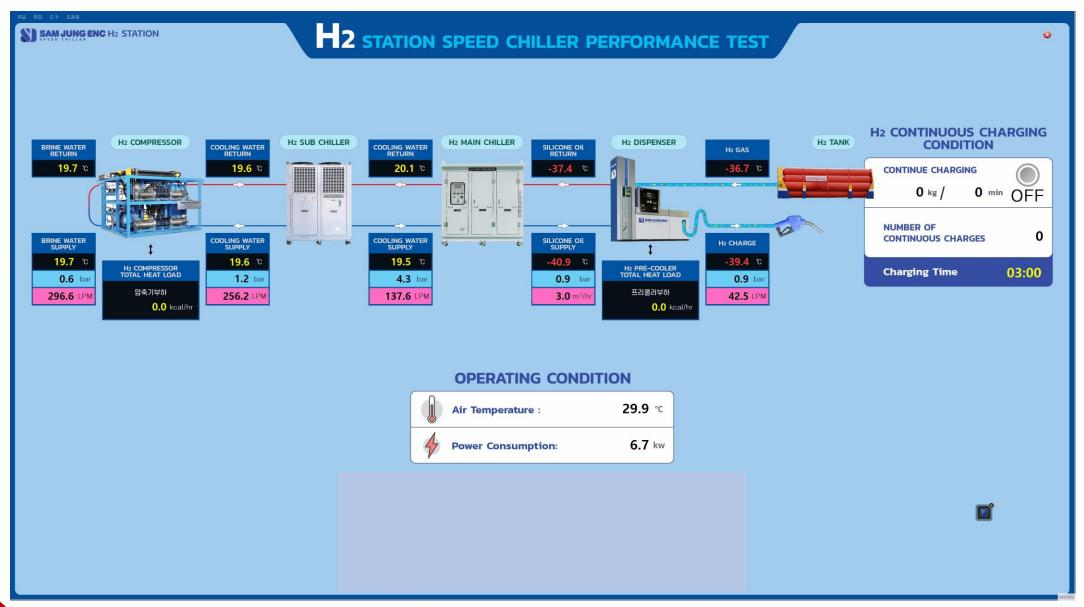








충전 시스템 흐름도







국내 수소충전소 설치 운영현황

(2020. 8 기준)

H2KOREA 자료제공

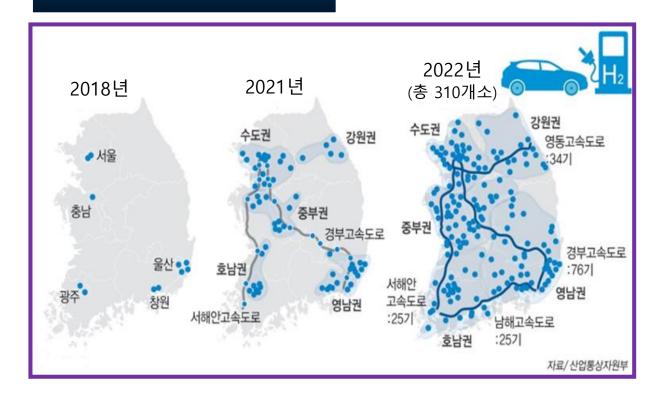




수소충전소 건설현황



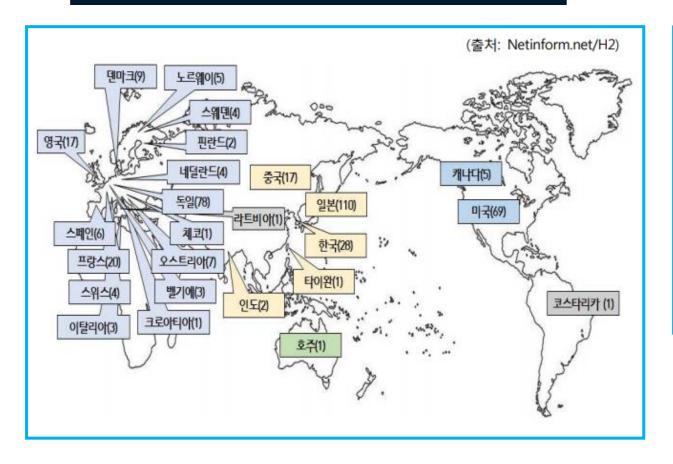
국내 보급 및 설치예정 현황





해외 수소충전소 구축현황

전세계 수소충전소 운영 현황(총 402기/2019. 7 기준)



주요국의 수소차 및 수소충전소 보급계획

구분		2022년	2030년
	수소차	4만대	80만대
	충전소	160개소	900개소
	수소차	10만대	100만대
	충전소	100개소	-
*}	수소차	5000대	100만대
	충전소	100개소	1000개소
	수소차	65만대('23)	180만대
	충전소	400개소('23)	1,000개소
_			(출처:대한석유협회)



