A Partnership between Local Government and Youth Initiative for Sustainable Development : A Case of Dangjin City



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Researcher
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Sustainable Development I

Development that meets the needs of the present

without compromising the ability of

future generations to meet their own needs.

WCED 1987 Our Common Future



in

MARK DECISION I US APPROVES LARGEST DAM REMOVAL TO SAVE ENDANGERED SA

| CANADA TURNS TO INDIGENOUS PEOPLE TO SAVE ITS FORESTS | VIETNAM NEARS \$11 B]

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Stay in the know on the topics that inform the Doomsday Clock.

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At doom's doorstep: It is 100 seconds to midnight



2022 Doomsday Clock Announcement

January 20, 2022

Leaders around the world must immediately commit themselves to renewed cooperation in the many ways and venues available for reducing existential risk. Citizens of the world can and should organize to demand that their leaders do so—and quickly. The doorstep of doom is no place to loiter.

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Climate crisis

News

Humanity faces 'collective suicide' over climate crisis, warns UN chief

António Guterres tells governments 'half of humanity is in danger zone'. as countries battle extreme heat

UK heatwave: latest updates

Fiona Harvey *Environment correspondent*

Mon 18 Jul 2022 11.00 BST







Wildfires and heatwaves wreaking havoc across swathes of the globe show humanity facing "collective suicide", the UN secretary general has warned, as governments around the world scramble to protect people from the impacts of extreme heat.

António Guterres told ministers from 40 countries meeting to discuss the climate crisis on Monday: "Half of humanity is in the danger zone, from floods, droughts, extreme storms and wildfires. No nation is immune. Yet we continue to feed our fossil fuel addiction."

He added: "We have a choice. Collective action or collective suicide. It is in



- Regional SDSN network
- National SDSN network
- Regional & National SDSN network
- SDSN network in development

1634 Members

35 National Networks

13 Regional Networks

About UN SDSN

The United Nations Sustainable Development Solutions Network(UN SDSN), an advisory body to the United Nations, is a global network of senior experts researching sustainable development problems and solutions. It was launched by then Secretary-General Ban Ki-moon to support the development of the UN's Post-2015 Development Agenda on August 9, 2012. We are researching ways to implement 17 'Sustainable Development Goals(SDGs)', which are the core of the agenda, and promoting international public debate projects. It is made up of university-based natural and social science research institutes, with 1634 participating institutions in a network of 35 countries and 13 regions. Jeffrey D. Sachs, a world-renowned scholar in the field of sustainable development, is headed by a chair professor at Columbia University in the United States as a Director and is run by a Leadership Council composed of about 100 prestigious international experts.

In particular, in 12 themes such as "The World in 2050" and "International Joint Research on Deep Low-Carbon Pathways" together with the International Institute for Applied Systems Analysis (IIASA), the International Energy Agency(IEA), etc. We are operating Thematic Networks, a global sustainable development scenario. In addition, the UN SDSN established the SDG Academy as an online education business institution for young people to provide online education on various sustainable development topics.







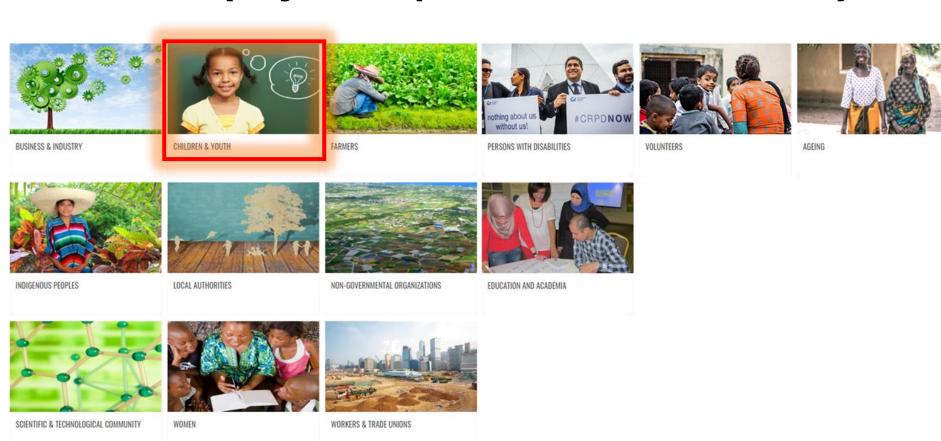
About UN SDSN Youth Initiative

The UN SDSN Youth Initiative was launched in Paris, France in 2015 by the UN SDSN to support the creation of sustainable solutions for youth around the world. 1) educating youth on the SDGs and recruiting them into networks to achieve them; 2) connecting youth around the world to share ideas and experiences and collaborate to achieve them; 3) developing innovative solutions for the SDGs It aims to support youth who create and expand.

The SDG Students Program fosters SDGs experts, the Global Schools Program provides SDGs education, the Youth Solutions Program promotes solving community problems, and the Local Pathways Fellowship develops community diagnosis and research capabilities and is held in more than 40 countries around the world.



MGoS(Major Groups and other Stakeholders)





Educated **869** students via SDG Youth Academy

Encouraged

94 inno

innovators to compete
at SDGs Hackathon

Encouraged

people to participate in daily SDGs life campaign

Discovered

Solutions through SDGs Living Lab

Trained

 $127\,$ campus SDGs activist

Published

SDGs policy proposal reports

Published

social media 'card news' regarding SDGs

Held 1

deliberative discussions on SDGs policies

| Universities



























































































Ecosystem

| Youth Associations











| Youth Groups































Y-SDGs Korea

2030

한국 청년형 지속가능발전목표 수립 보고서

Y-SDGs Korea





1. 빈곤 퇴치에 대한 자발적 노력

2. 영양균형 및 식량안보 인지 제고

3. 건강한 삶과 웰빙 문화 조성 4. 양질의 교육 및 학습환경 조성

5. 모든 곳에서의 성평등

6. 수자원 절약 및 수질 오염 방지

8. 청년의 구직 및 노동환경 개선과 사회적 경제 참여

9. 사회문제 해결을 위한 지원사업 및 기반시설 실효성 강화

10. 모든 유형의 차별 및 불평등 해소

11. 안전하고 포용적인 도시 공동체 조성

12. 책임감 있는 소비와 생산 양식의 생활화

13. 공세적 기후 대응

14. 해양폐기물 발생 예방 및 해양생태계 보전

15. 생명 존엄의 인지 및 육상생태계 보전

16. 정의롭고 평화로운 청년문화 조성 및 제도 구축

17. Y-SDGs Korea 이행과 달성을 위한 협력 활성화















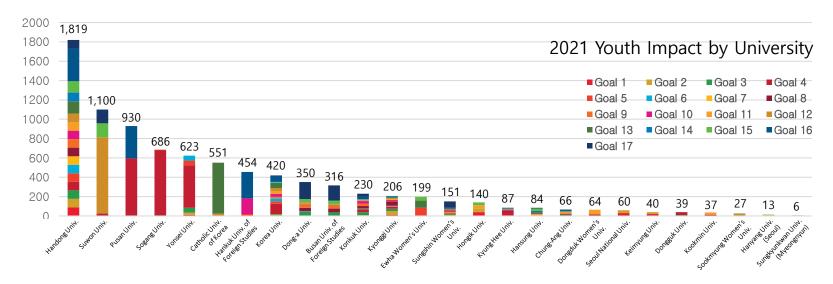
Voluntary Youth Reviews

Voluntary Youth Reviews

In line with the case of the Korean government's VNR (Voluntary National Reviews) submission and Dangjin city's first VLR (Voluntary Local Reviews) submission in 2020, SDSN Korea publishes VYR (Voluntary Youth Reviews) from 2021.

The purpose of VYR is to expand and enhance the SDGs youth ecosystem through 1) recognizing the youth's identity as an implementer beyond the stakeholder of the SDGs 2) archiving of cases 3) quantitative performance management.

In the 2021 VYR, out of 84 member organizations from 42 universities nationwide that belong to SYCS Korea under SDSN Youth Korea, 45 organizations from 27 universities participated.



Impact Score was calculated as below and divided by the number of SDG contributed, and reflected in each SDG.

- 1) Passive project (campaign, etc.): 1 point per experiencer
- 2) Active program (volunteer service, education, forum, etc.): 1 point per participant * 1 hour
- 3) Card news and blog content type: 1 point per cumulative hits
- 4) Video content type: 1 cumulative view * 1 point per hour

The colored sections in the SDG Dashboard are designated as follows:

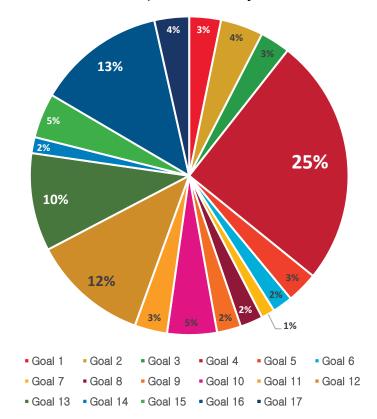
Challenges solved: More than A (Total created impact divided by total number of organizations)

Challenges remain: More than B (A divided by 5 (Pillars)) to A
Significant challenges: More than C (A divided by 17 (goals)) to B

Major challenges: More than 0 to C

SDG Performance Web is an actual value, not a percentile, and anything above 100 is considered 100.

2021 Impact share by SDG





AIESEC in Korea 국제리더십학생단체

Contribution by SDG



























Challenges remain





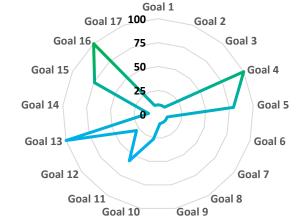














UNAI ASPIRE Korea 유엔 아카데믹 임팩트 어스파이어

Contribution by SDG



























Challenges remain



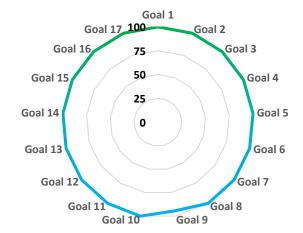














UNSA ROK 유엔한국학생협회

Contribution by SDG



























Challenges remain



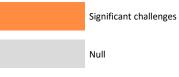












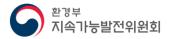


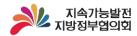


Goal 1















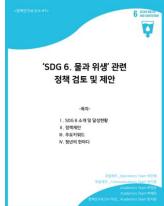


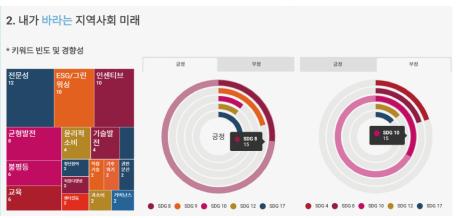
















기권: 10 인

28. 지속가능발전기본법안(대안)

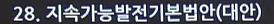
재적: 295 인 재석: 201 인 찬성: 190 인 강은미 ●강준현 ●고민정 ●고영인 ●고용진 ● 권인숙 ●박영순 ●박완주 ●박용진 ● 이소영 ● 이수진 ● 이수진(비) ● 이용번 ● 이용선 ● 이용우 전해철 ● 전혜숙 한정애 ●한준호 ●허 영 황희 •의 장

강대식 ●강민국 ●강훈식 구자근 권명호 권성동 ●권영세 ●기동민 ●김기현 ●김도읍 강기윤 김태년 ●윤창현 윤한홍 윤후덕 ●이개호 정찬민 ●최형두 ●추경호 태영호 ●하영제 한무경 홍준표 ●황보승희 ●황운하

제391회 국회 본회의

지속가능발전기본법





재적: 295 인

재석: 201 인

찬성: 190 인

반대: 1인

기권: 10 인



찬성: 94.53%



반대: 0.50%



기권: 4.98%

당진시

지속가능발전목표는

17개 UN 지속가능발전목표와 연계하여

수립된 대한민국 최초 지속가능발전계획입니다.

- 당진시는 1 시정 전반에 지속가능발전 가치 반영
 - 2 이행계획의 성과시스템 반영 등 구체적인 이행체계 확립
 - 3 거버넌스 강화로 추진동력 확보를 원칙으로 시행하고 있습니다.

2035 당진시 지속가능발전 기본계획과 이행계획

기본계획

략

지속가능발전 지표

이행계획

성과지표

중점과제

단위사업

당진시 지속가능발전목표

함께 만들어가는 미래, **지속가능한 당진**

절대빈곤충이 없는 당진

- 1 도시와 농촌의 소득격차 원화 2 취약계층 경제적 자립기반 형성
- 3 노인빈곤해소



2 전략산업으로서의 농업기반 강화

- 2 친환경 웰빙 농산물 생산기반 구축



3 건강한 삶 보장

- 1 생활체육 여건 조성 2 교통사고율 전국평균 이해로 줄이기 3 호흡기 질환(질병발생률) 절반으로 줄이기 4 안전한 먹거리 보급

4 맞춤형 교육도시

- 1 생애주기별 맞춤형 교육프로그램 확충 2 교육 만족도 10% 향상 3 문화 불평등 완화
- 4 참여형 문화공동체 구축



5 실질적인 성평등 달성

- 1 의사결정과정 여성참여 확대
- 2 돌봄 및 보육의 평등과 지원체계 강화
- 3 아동 여성의 안전을 보장하는 사회기반 조성



6 물 걱정 없는 도시

- 1 몰순한 개선 2 상수도 관리체계 개선 3 수자원 보호



7 에너지 정의 실현



8 누구나 일할 수 있는 경제환경 조성

- 1 친환경산업 육성
- 2 일자리 양극화 해소
- 3 지역 내 순환경제 구축



9 미래 전략산업 육성을 위한 기반 구축

- 2 6차산업 활성화



10 불평등 없는 지역공동체 구현

- 1 지역권역별 균형발전
- 2 노동 불평등 완화 3 사회적 약자를 위한 제도 강화



11 사람 중심의 도시공간 조성

- 1 도시공원 확대 2 지역문화자원과 연계한 도시재생 활성화 3 친환경 교통체계 구축 4 주거복지 강화



12 지속가능한 지역 소비체계 구축

- 2 자원순환 활성화



13 국가목표 수준 온실가스 감축

- 이산화탄소 배출 획기적 감축
 신재생에너지 확대
 기후재난 복원력 증대
 농어업 기후변화 적용대책



14 해양생태계 건강성 유지

- 1 해양 생물자원 보호 2 해양환경 개선
- 3 해양 보전지역 확대



15 친환경도시를 위한 생물다양성 확보

- 1 도심지역 생태공간 확보 2 수생태계 복원

- 3 토양의 건강성 확보



16 시민 누구나 존중받는 도시

- 1 인권도시 만들기
- 2 지역사회의 투명성 강화 3 안전한 도시기반 구축



17 지속가능발전을 위한 네트워크 구축

- 1 지역산업과 동반성장을 위한 상생협력 구축 2 참여적 의사결정 확대 3 갈등관리 4 글로벌 네트워크 참여



당진시와 인류의 공동목표

우리 모두의 지속가능한 발전을 위해

09

Establishment of Sustainable Development Goals in Dangjin

One year earlier than national plan . Spread nationwide as a standard model in Korea_{ਨਣਾ} _{당진시, 당진환경운동연합}









































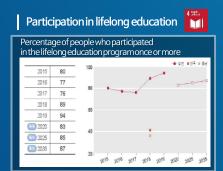
Sustainable Dangjin

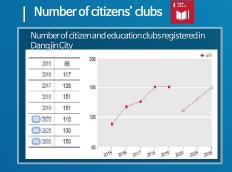
- Co-creation based on governance, Establishment of common goal and vision

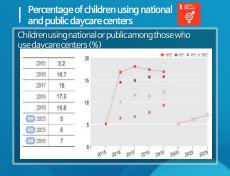
Sustainable Development Report 2020

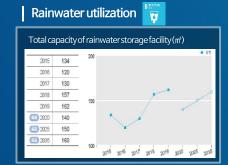
Citizens were positive about sustainable development after 4 years of implementation

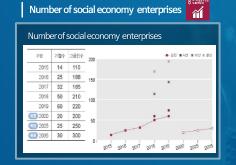
51 indicators out of 88 assessed as 'improved'

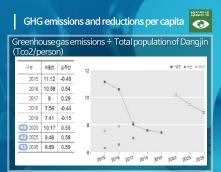






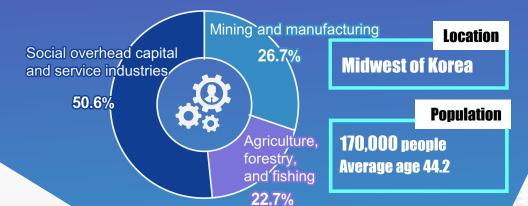






Dynamic and vibrant Dangjin!

Urban-rural complex city with industry and agriculture in harmony!





Employment Rate (in Korea)

2nd



Total Fertility Rate (in Korea)

1st



GDRP (in State)

2nd



Youth Employment Rate (in State)

4th







석탄화력발전소 국내 현황 ^{2022.03 기준} 기동 **577** 전설 중

가동 중

여수 1.2호기

시석유량 : 총 668MW

가동햇수: 2011년부터 최장 11년, 최단 6년째 가동 중

Current status of coal-fired power plants in Korea (as of March 2022)

가동 중

하동 1-2-3-4-5-6-7-8호기

가동햇수: 1997년부터 최장 25년, 최단 13년째 가동 중

시석용량 : 총 4000MW

건설 중 강릉안인 1.2호기

가동햇수 : 올해(2022년) 건설 완료 후 가동 예정



2013年13年天空站

First Energy Transition Case in the world coal-fired power solar power







Dangjin eco power (thermal power) construction plan

2010.12 Reflection of the 5th Basic Plan for Electricity Supply and Demand [Coal-fired Power]

2012.06 Acquired power generation business license [coal-fired power plant

2017.04 Approval of power development project implementation plan [coal-fired power]

Status on Dangjin eco power (solar power)
Construction

2017.12 Approval of change of power development project implementation plan

[coal-fired solar power generation]

2019.02 Started construction of solar power plant

2020,07 Completed solar power plant and energy storage facility [303,986;11/9,884w]

Citizen-led Energy Transition Policy

Education, suggestion of action plans ('18.7.~9.) Confirmation of vision and tasks (18.9.)

Establishment of local energy plan and vision with citizen participation (2017~2018)

Education, suggestion of vision

Vision Declaration Ceremony (18.9.28.) Implementation, Evaluations

Policy review, education, promotion

Energy Ordinance 2019.1.

Energy Committee 2019.4.

Energy Fund 2019.6.

Energy Center 2019.6.

Energy Transition Ordinance

2020.12.







Global Covenant of Mayors for Climate & Energy (GCoM, Gcom) Activities











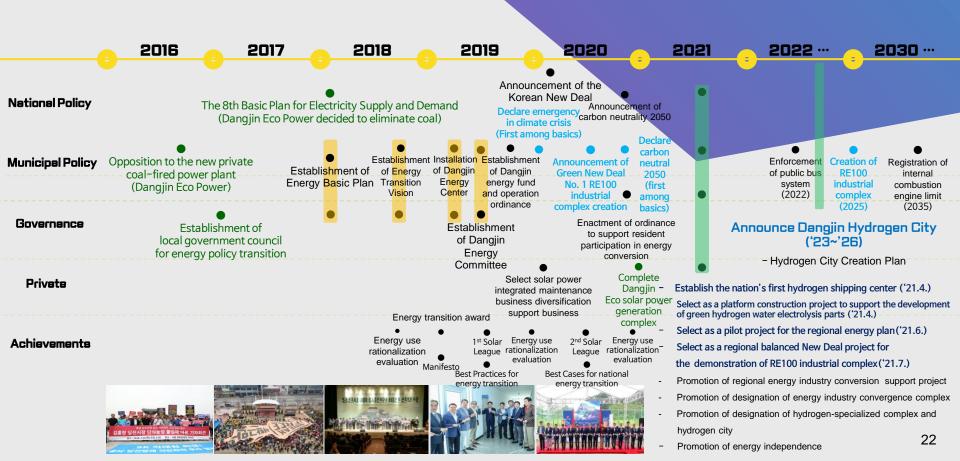
Future We Make Together Sustainable Dangjin

9.6.(월)	9.7.(화)	9.8.(수)	9.9.(목)	9.9.(목)
당진시	전라남도 화성시	여수시 창원시 광명시 고양시	서울 강동구 광주광역시 서울 은평구 대전 유성구 안산시 의왕시 포항시	 ✓ 14개 도시 참여 완료 ✓ 글로벌 기후에너지 선도도시발물 ✓ 이름레이 한국사무소 캠페인 영상 온라인 게재 ✓ UN, GCOM,
GCoM & RtZ 참여 온라인홍보 도시 지목(2)	GCoM & RtZ 참여 온라인홍보 도시 지목(2)	같은 방식	지목 없음	이클레이 세계 본부 글로벌 홍보

Participation in the global climate crisis initiative

- City greenhouse gas emission inventory CDP (Carbon Disclosure Project) platform report
- Establishment of greenhouse gas reduction target, climate adaptation/and energy action plan, etc.

Our city's carbon-neutral footprint



Construction of Dangjin Hydrogen City (Carbon-neutral specialization, the nation's best hydrogen ecosystem leading city, revitalization of new investment in the hydrogen industry)



- 한국동서발전 당진발전본부 2030년부터, #9,10호기 암모니아 20% 혼소 (`30.~`46. 1,420만톤 소요)
- 자체 부두를 통한 해외 암모니아 도입 추진

한국가스공사 당진LNG기지('22.~31.) - 액화수소 인수기지 건설 계획('27.~'28.) - 대규모 수요처까지 배관을 통한 공급

- 블로수소 클러스터 참여 검토



송산민자부두(항만수산과)

(현재)잡화부두 → 액체부두 변경 추진 삼성물산, 현대산업개발 등과 협의 중

Plan to create a clean hydrogen city in Dangjin

Period

2023 ~ 2026

Expenses

About KRW 40 billion (national, provincial, municipal) *Private investment separated

Details

Housing and facilities (installation of fuel cells), transportation (hydrogen bus, garbage truck), infrastructure (hydrogen piping, integrated operation center), regional specialization project, etc.

Promotion Plan

Master Plan (~ 2023)

Infrastructure construction $(2024 \sim 26)$

Trial operation (2026)

현대제철 당진제철소

- 제철 공정 내 수소 혼소, 수소환원제철 추진(장기목표)



현대엔지니어링

25. 7월부터 재활용플라스틱 활용 수소 연간 18,500톤 생산 가능

GS-EPS

LNG-수소 10% 혼소 목표





Trained 17, Incubated 6 Teams (2022)

Goal 4(5), Goal 11(4), Goal 13(8)





1. 도심권

- 🕦 가톨릭대학교 (성신)
- 덕성여자대학교 (종로)
- 🗿 동국대학교
- 상명대학교
- 성균관대학교
- 숙명여자대학교
- 📆 한성대학교

2. 동남권

- ① 가톨릭대학교(성의교정)
- ② 서울교육대학교

3. 동북권

- 건국대학교
- 🙋 경희대학교
- 🧿 고려대학교
- ❹ 광운대학교
- 6 국민대학교
- 여성여자대학교
- 🥡 동덕여자대학교
- ③ 삼육대학교
- 성 서경대학교

- 세울과학기술대학교
- 1 서울시립대학교
- 🐌 서울여자대학교
- 🔞 성신여자대학교
- 👿 성신여자대학교 (운정그린)
- 😈 세종대학교
- 🔞 한국외국어대학교
- **(1)** 한양대학교

4. 서남권

- (1) 서울대학교
- ② 성공회대하교
- 👸 숭실대학교
- ② 중앙대학교
- ⑤ 총신대학교
- ⑥ 케이씨대학교

5. 서북권

- ① 경기대학교 (서울)
- ② 명지대학교
 - 17ントにロジャコ
- 성상대학교
- ② 연세대학교
- 이화여자대학교
- 👸 홍익대학교







G20 GROUP OF TWENTY



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