

Excel through Innovation



IP and Green Growth The role of IPRs in Global Challenges

IP Collegium Meeting

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What is Green Technology?

- Environmental friendly or clean technology
 - Recycling
 - Environmental remediation
 - Alternative fuels
 - Cradle to Cradle
 - Green building
 - Green nano technology



WHY Green Technology?

- Globalization and urbanization
- Limited resources of non renewable
- Global climate change
- Impact on environment

What TRIPS says?

Article 7

 "The protection and enforcement of intellectual property rights should contribute to the promotion of technological innovation and to the transfer and dissemination of technology, to the mutual advantage of producers and users of technological knowledge and in a manner conducive to social and economic welfare, and to a balance of rights and obligations."

How world is reacting?

- Offering special treatment or accelerated examination of Green Technology Innovation by Patent Office
 - Japan
 - USA
 - UK
 - Australia
 - Brazil
 - Canada
 - Israel
 - Republic of Korea

Indian Perspective

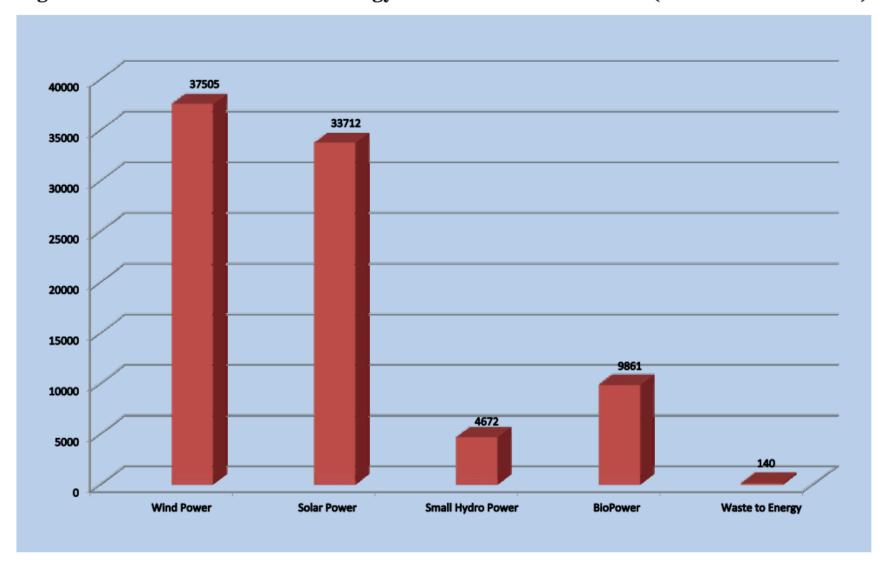
Table 25 Country attractive index of the 52nd edition-2010f Renewable energy 8 [67]

From: Renewable energy for sustainable development in India: current status, future prospects, challenges, employment, and investment opportunities

Overall rank	Previous rank	Country	RECAI score	Technology-specific score (out of 100)							
				Onshore wind	Offshore wind	Solar PV	Solar CSP	Biomass	Geothermal	Hydro power	Marine
1	1	China	65.7	51	55	53	33	45	21	52	19
2	2	USA	63.8	50	53	49	32	39	39	35	31
3	4	India	63.8	50	20	57	34	44	25	45	21
4	3	Germany	62.7	46	50	49	17	44	34	35	20
5	6	France	62.5	50	51	48	22	48	33	31	36
6	5	Australia	62.3	47	30	54	35	24	21	39	31
7	8	Japan	59.2	43	44	47	18	51	48	36	23
8	7	UK	58.6	47	57	41	14	47	27	32	33
9	9	Netherlands	58.6	44	48	45	15	33	23	24	15
10	13	Argentina	58.6	45	21	50	30	37	32	37	20
11	11	Chile	56.7	43	20	47	32	37	31	41	28
12	15	Morocco	56.6	42	17	51	31	16	15	20	14
13	12	Mexico	56.3	43	19	50	25	45	43	34	19
14	10	Denmark	55.7	44	48	39	15	44	17	22	24
15	20	Egypt	54.9	45	14	52	36	13	12	27	12

Source: https://link.springer.com/article/10.1186/s13705-019-0232-1#Sec2 published on 7 January 2020

Fig. 1.2: Sector Wise Renewable Energy Cumulative Achievements (MW as on 31.12.2019)



Source: https://link.springer.com/article/10.1186/s13705-019-0232-1#Sec2 published on 7 January 2020

SOLAR CAPACITY INCREASED IN THE LAST 5.5 YEARS FROM AROUND 2.6 GW TO MORE THAN 34 GW

WORLD'S LARGEST RENEWABLE ENERGY EXPANSION PROGRAMME 175 GW TILL 2022

RENEWABLE ENERGY HAS A SHARE OF 23.39% IN THE TOTAL INSTALLED GENERATION CAPACITY IN THE COUNTRY I.e. 368.98 GW (Upto 29th February, 2020).

India now at

5TH GLOBAL

POSITION

for overall installed renewable energy capacity

SOLAR POWER
TARIFF REDUCED
BY MORE THAN
75% USING PLUG
AND PLAY MODEL

ABOUT 19 TIMES HIGHER SOLAR PUMPS INSTALLED BETWEEN 2014-19 | 2.25 LAKH VERSUS UPTO 2014 - 11,626

RENEWABLE ENERGY INSTALLED
CAPACITY INCREASED 226% IN LAST 5
YEARS

SOLAR PARK
SCHEME DOUBLED
FROM
20GW TO
40GW

RECORD LOW
SOLAR TARIFF
RS 2.44/UNIT
ACHIEVED IN
BHADLA,
RAJASTHAN

ADDITION OF 5.5 GW IN 2016-2017

Source: https://mnre.gov.in/

INSTITUTES & AGENCIES

National Institute of Solar Energy

VISIT NOW 9

National Institute of Wind Energy

VISIT NOW 9

SSS National Institute of Renewable Energy

VISIT NOW •

The Indian Renewable
Energy Development Agency

VISIT NOW 9

Solar Energy Corporation of India

VISIT NOW 9

Association of Renewable Energy Agencies of States (AREAS)

READ MORE 6

Support Measure & Incentives

Ministry of New & Renewable Energy (MNRE)

- A comprehensive policy framework on RD&D is in place to support RD&D in new and renewable energy sector and market development.
- Financial Support
 - 100% to Government/non-profit research organizations/NGOs
 - 50% to industry.
- Reserve Bank of India has included renewable energy projects under priority sector lending for which bank loan up to 15 cr (INR) for renewable energy projects and for individual household loan limit is 10 lakh (INR)

- Sustainable Finance Scheme
- **SIDBI** has introduced a new scheme called the Sustainable Finance Scheme for funding sustainable development projects that contribute energy efficiency and cleaner production
- (https://www.startupindia.gov.in/content/sih/en/government-schemes/sustainable-finance-scheme.html)
- Government Incentives to IGBC-rated Green Building Projects
- (https://igbc.in/igbc/redirectHtml.htm?redVal=showGovtIncentivesnosign)
- Joint Clean Energy Research and Development Centre (JCERDC)
 An initiative launched by US-India in 2009 for advancement of Clean Energy and address global energy and environmental sustainability challenges

What's there for IP?

- As per National IP Policy
 - **2.18:** Provide special incentives for creation of IPRs in green technologies and manufacture of energy efficient equipment

- No any supportive measure from IP Office till date specifically for
 - IPR generation,
 - Technology Transfer
 - Commercialization

Wait and Watch

Challenges

• Economic development Vs Social development

Industrial lobbying

Government Policy

No any incentive from IPR perspective

Lack of Rol or uncertainty of success

Case studies

NASOFILTER







Source: https://nanoclean.store/

EdiblePro

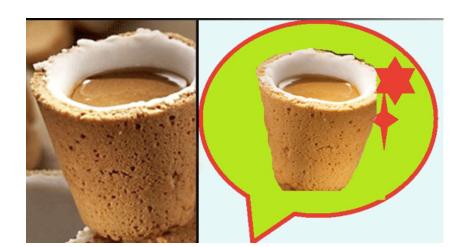












AIR-INK





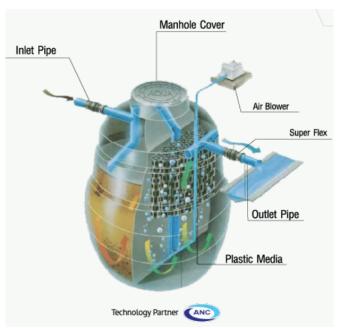


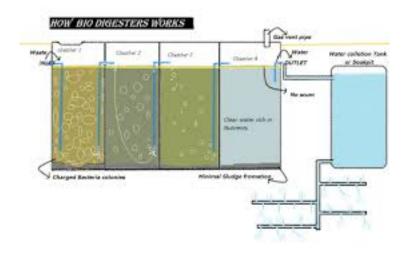


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BANKA BIOLOO

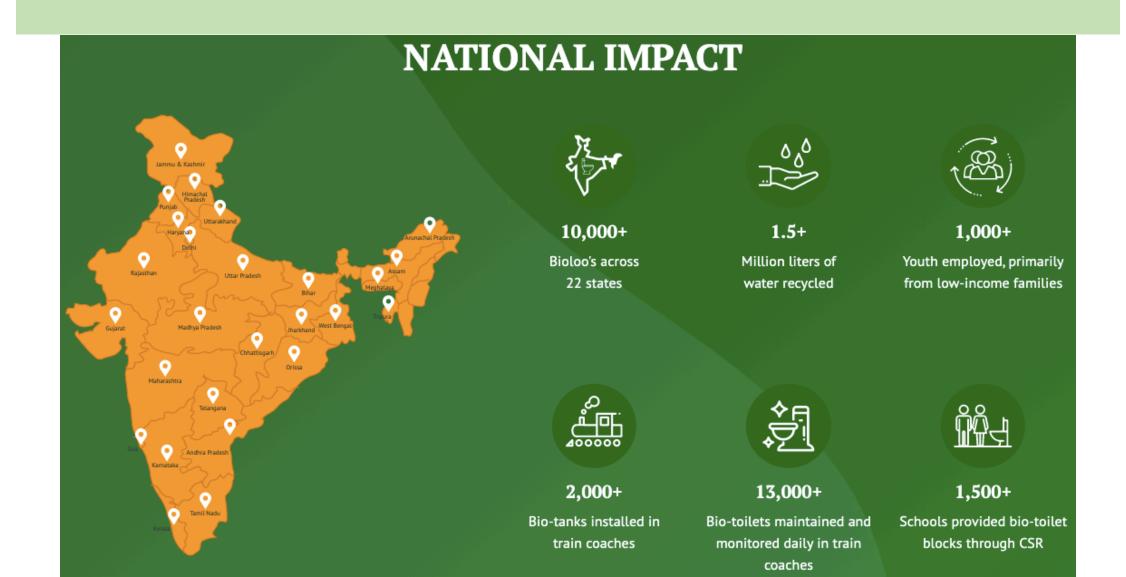






Source: https://www.bankabio.com/

BANKA BIOLOO



Try to leave the Earth a better place than when you arrived.





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