ECOSOC Annual Ministerial Review

Regional Consultation on Science, Technology a

THE RIO+20 AGENDA AND THE MILLENNIUM DEVELOPMENT GOALS (MDGs)

The Ri #20 agenda ident energy as a fipreisorit ustarea for aliopatente deve and o bSiuld on t ainabhe Eneinny tfor All Secret ive launchedaby proposes t iat ed Natatipantiding universal vaecaienst General of t he UniTthe init mdern 0 energy ervi cesfor bot h conumpt i on and product ion usesby 2030; improving en at all levelswi t haview t 2030clouadandi ngjottbling t he rate hare of he globialben 2030 t hrough promot renewable energy in t ingt he of renewable energy ources and t hnologi æcicn all count ² In ordeest ₀achi eve t Ri 0+20 recogni zes he import t ance of st remt hening t ies if ickcodity by promot rieseffecting capaci t ive mechanins, enhanced means, appropriat enabling hee73(m) 290.002 Tc 0.0(en) 180 Td [(0180h)-11(.772 0 Td [(62 0 Td148) 5(n) 11(6

1. Shift balance in favor of renewable energy

iona**l gozeernbeenne**fit Nat ubst from it ut aid convent proven RETs as well as from promot new RET of This require STI policies t hat primarily on developing RETs suit nat able for icinaticuenterov ancesnclubideh renewable energy t saswell anechanicontas driving for the the hindt argetupport he deployment renewablefenergy. Report edly, at least 118 count are developing count ries had renewable energy t aræt sin place by early of early 2010.⁷ Thisindicat policymakeestsare increasinghyat becoming aware of t he benefit emming from renewable en**ergy**uding energy ecurit y, reduced import st de i on of greenhoupe gas(GHG) emi **i** ons prevent ion of biodiversit reduct y loş i mpi job creat ion, rural development — and and energy accorded some the ₀ facilit .⁸ Thibein economic ect int ion of recomposatele energy policies wit h policiesin ot urn able policy frameworks for RET development requires uit adapt, product at orsof t deployment in key ect he economy.

Priorit regardinesgiment inicialude:

- Set t ing achi evable renewable energy t arget s
- Improving policy frameworks for wider use of RETs
- Promot t t ing he echnology innovat for t ion ecoyst he oddemonded lopmendem rat diffusion and adopt ion of RETs
- Ensuring int egrat ion of RETs int oot her nat mit igat ion
- Gradual increase in t
 REETs are of
 he energy mix of count
 ries
- Mobilizing great encudomest development erand up of RETs
- Promot in REATI-crassed innovat ion and indust rial development
- Increasing invest ment for generat ing more energy t hrou
- Promot rketficqueed RETinnovat ion

2. Alleviate energy poverty through improving and mainstreaming energy access

Energy accessend affordability have been criti calissessifijoir magjurrail tandy ofi naccesi ble areasAbout1.3 billion people-one in five globally-lack electricithomes or conductbusines asmain by 40% of the world's population rely on wood,charcoal, or animal wasteto cook their food breathing in rely

3. Enable technological leapfrogging

Most of t hetreleared by and vanue of trenewable energy t echnologi esare happening in t he developed count ries The int heldllbyctt uhadel developed world, which largely limit st he accei bifir tt yhtef developing Crsii espanard tLD riestical rempt count lt icular. ist for developings scourt crit st 0 heirechnologica Sofa paabidietsin t t t heseeedint rifesus on st y ren y for R& nat capaci ti mal locali zat ion o£D, echinder effort heir t t c. swuld reduce t echnologi cal de riesin tand long run. i ciudeair, 66 EV ed obiog count count lhopaneoti um riescould eginesiafur accelerated innovating RETs in and t embark on st able rat ui t leapfroqing. STI policy priorit hisregard could include: iesint

Promot ing t echnological learning and innovat ion
Out R& lining D

hep**den**/elopment ion, and diffuionlmfv&rETs tiverepracices driving force for t alo being followed in many count riesin everal ot her areasof RE:TSPRmt RET-popuedariezentary pervice t echnological learning, resurce mbilizat ion of andardi zat ion, RtET equipmentest andnopanducert delivery models st grid RET applicat ionset C.

1. Developing innovative STI policy instruments and incentives

i onal STI policies could creat eta conduci væ emivífaconienitt Nat widetr at OV ion of RETsint The come roy linic of the countrave a point applicat riiompactonive RETs by iforstand diffusion ofering innovat t he applicat im aoft-t ivhieŧ encouragRnET, movat o make increment art ors t al t ec he¹³r **admet**e policy opt ion and ut ions t o cost hat redubetendtt i onsi næjn dat iveint hisregard and hould be considered by nat inpart could be eifcue art fingyapolincenet , and publicven nancing.¹⁴ Some oft innovat regulat he ive pract t areas inchase:

Policy instruments

- Feed-int ariff
- Renewable Energy Target Quot 🖌 Renderingato te port i ons/ folio st and and and s
- Net met ering
- Minimising subsidies for convent ional energy surces, e.g. carbon ensive fuels

Fiscal incentives

- Grant-upport chemesfort he development and early st
- Concesi onal loans
- Subi di es
- Taxincent ives
- Energy product i on payment

Public financing

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One of t he major object innovat ivesof na (TNAS)st) in Asia - Ponalemic count riesist develop and deploy ust ainable energy opincluding renewaikance energy t etchnologi es agenda .aRenewable energy t implement t dbeelopmeental edhaologi et nat he he vast -dep**raiver di p**opulat ettenhancelyeneroviædcesfor t y of eneirogy pot not i onal economi eş part als out ribut herectet but t cont orsofonat inclupixmentand ust e ainable devine hupmentregard, nahtis . ional government t learn from to od pract he of to i ces heilin dount , such be edition to S

- Developing a long -t -arterm, well iculat ed nat renewable ional policy on ene energy, inclusive of ect or and tand sub- ional st rat egies wit policy framework of development and povert y reduct ion
- Develop ing capacit ies of all keyst akeholders includigen prings ect t echnology suppliers ervice providers financial inst it ut and consumers (including women)
- Engaging with the st akeholders art diseminat all information of to dimensure ensure support project for same same to provide neuronal same support is a mathematical same support of the same support of th
- Encourage product i on and pervicing of ust ainable energy opt i onsasa

3. Mobilizing resources for RETs innovation, development and commercialization

for R& Government financial upport ion of fundsiscrit . Publicafituancing alo plays proimport mbilizat e Rants ing commenzati addille renewable energy t edhwebsties exploring and promot ment rat buildexpepinejneetin inst s can allat ion, maint demnst he confidence necessry for early market ¹⁶ Count developmentries could learn from increage t uud praiomal relat :ices ed t nat 0

- Est adorli dani tog RET cheednefsi nanci ng
- Generat ing resurcest havinging imenor/handing for disean feaned-gy research and innovat ion
- Providing grant sfor reparch, development and demost rat
- Providing pecial funding for t he aborpt and re-innovabout, diffusion ion of import RETs

For example, the Governmentoffekadita has recented a Natlyional Clean(NCCF) tollect hrough cing a clearesefiel Nife aco per ton of coal, lignite and pNCCF will be used to finance innovative green energy projectsand research ventreducing carbon foot.17print

4. Establish a flexible and favorable intellectual property regime

a favor**e**ble int STI policies can promot ellect ual propert y env promot ion of indigenously developed RETs but all for t he t t inautatiesate t ies. kecphantot a greati cular, inabnlerveflender t er arti bi li t global IPR regime could provide an impet ust ٥t dowentormot riesi 18 -related (more pract ed i cesfor RETspromt Suggest i on could include:

- Flexibilit iesin pat rage iest abiliations
- Except ions (e.g. for experiment allue and from regulat ory revirsing the for psublic good. 0 RETs
- Parallelimport prot sof IPR ect ed goods
- Bringing RETsundert hejuriplict inn of compet it i

5. Foster networks, partnerships, collaborations and inter-linkages for the development and promotion of RETs

Succeful t ion of RETIFICE quippoiest development implementatid at y of akeholders including public government aqencinse; public repait ut st excellence, project implement vent ing ag**enc**éesapit al and finance inst ect or, NGOs and civil ociet y groups develop usents and consumers part n here is a need t ges among o **ast** t akehedersm of Hence, t abhiehe liitinkat nethi psandacuplicup inizatigh net works part meianus Set poliuch as :

- ICT enabled net work of pecialized inst it ut ions
 knowledge and collaborat ion
- Regional t innovæcthmology i on yst ensencompasing a whole range of act inst -researtch parks firms potablic bodies netons works et c

• Fully subidized or grant - driven models

Some of there innovati ve renewable energy models in Plasmeinftic counted in Airiaes areprivatect - drivene cookurstoves programmes in China, Sri amainkaCambodia;NepalBiogas SupportProgramme;

Wi dher religienni na t echnologiæbscoube hampered if t renewa**bol**eofeneroy t adequat measuresaceeSnTt but tatt nat hakehe innal and requitinal level. Pacific ł ional STI policiefo**cee du f**ost o ering regional linkages and regional level, nat ional RED st promatkeholders and sumiting out h copherat part ongn**earsti**ps am Net working among nat i onal st akeholdcartat -boradyzet cros ł echnologi cal cooperat t imbet ween count ri es

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- Helping st rengt henandeatk STI infrædquinætd t ructegy t ure radeveloping count ries part i cularly t have dheft duct which ot i es accesing t echnologi es and relathow for producted know .i on and use
- Addressing/reducing incoherent, and oft en conflict ing, policy mult , ilmathich t eral lendelt o undermine t he wider di