

Package ‘srn’

October 31, 2018

Title Sub-Regional Nexus Modeling Tool

Version 0.0.1

Description Package to process water-energy-land nexus data to different sub-regional levels.

Depends

License MIT + file LICENSE

Encoding UTF-8

LazyData true

Suggests testthat, knitr, rmarkdown

RoxygenNote 6.1.0

Imports RColorBrewer, rgcam

VignetteBuilder knitr

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srn	<i>srn: Sub-Regional nexus Package</i>
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Description

The SRN package provides

SRN functions

The SRN functions ...

`srn.colors`*srn.colors*

Description

This function loads various color palettes used previously in GCAM as well as new palettes for SRN modeling to the global environment

Usage

```
srn.colors()
```

Details

List of Color Palettes Once `srn.colors` has been called all the following colors palettes are added to the global environment. Each can be called to see the colors and associated levels.

- `pal_16`
- `elec_tech_colors`
- `elec_renew_colors`
- `building_colors`
- `trn_fuel_colors`
- `enduse_fuel_numbered`
- `enduse_colors`
- `pal_pri_ene`
- `pal_pri_fuelcost`
- `pal_emiss_sector`
- `pal_landuse`
- `pal_hydrogen`
- `pal_refliq`
- `emiss_by_enduse_colors`
- `biouse_colors`
- `pal_Basic`
- `pal_Gas`
- `pal_Diff`
- `pal_Diff5`
- `pal_Absolute`
- `pal_Absolute5`
- `pal_Unassigned`
- `pal_elec_subsec`
- `pal_elec_finalNrgFuel`
- `pal_elec_techs`
- `pal_elec_sec`
- `pal_finalNrg_sec`
- `pal_pri_ene`
- `pal_elec_tech_colors`

Value

A list of color palettes.

Examples

```
library(srn)
a<-srn.colors()
pie(rep(1,length(a$pal_Basic)),label=names(a$pal_Basic),col=a$pal_Basic)
```

`srn.readgcam`*srn.readgcam*

Description

This function connects to a gcamdatabase and uses a query file to out results into a table ready for plotting.

Usage

```
srn.readgcam(gcamdatabase, queryxml)
```

Arguments

<code>gcamdatabase</code>	Full path to gcam database
<code>queryxml</code>	Full path to query.xml file

Value

A table with data formatted for srn package charting functions

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